

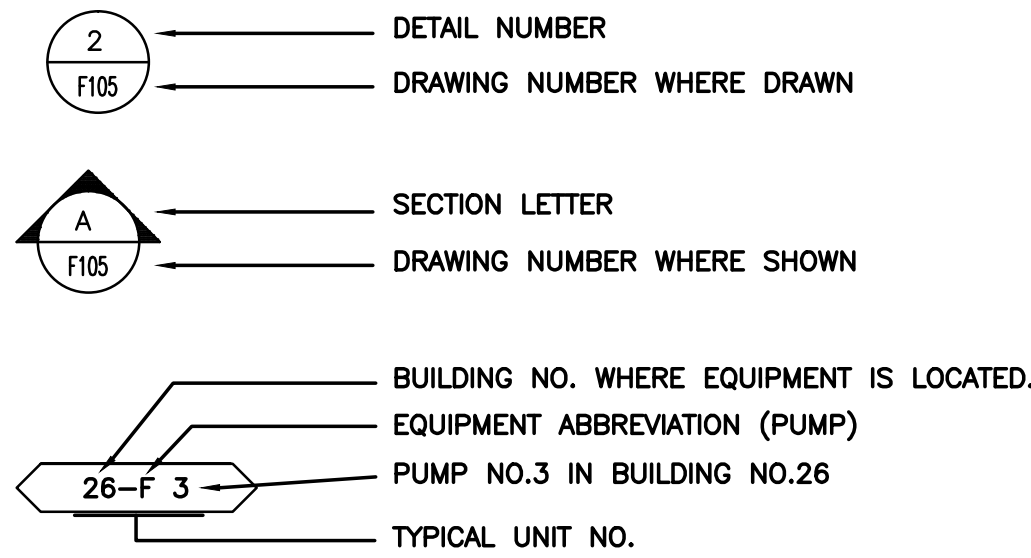
FIRE PROTECTION ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	NC	NORMALLY CLOSED
AF	ABOVE FINISH FLOOR	NC	NOT IN CONTRACT
AFG	ABOVE FINISH GRADE	NO	NORMALLY OPEN
AP	ACCESS PANEL	NOM.	NOMINAL
AS	AUTOMATIC SPRINKLER	NTC	NOT TO SCALE
ASD	AUTOMATIC SPRINKLER DRAIN		
ASR	AUTOMATIC SPRINKLER RISER		
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
BFP	REDUCED PRESSURE BACKFLOW PREVENTER	PA	PASCAL
BHP	BREAK HORSEPOWER	PD	PRESSURE DROP OR DIFFERENCE
BSP	BLACK STEEL PIPE	PG	PRESSURE GAGE
		PPI	POUNDS PER SQUARE INCH
C	CELSIUS	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
CV	CONTROL VALVE	PSIG	POUNDS PER SQUARE INCH GAUGE
DN	DOWN		
DOE	DEPARTMENT OF ENERGY	SPR	SPRINKLER LINE
DWG	DRAWING	SQFT	SQUARE FEET
EL	ELEVATION		
ESC	ESCUTCHEON	TDH	TOTAL DYNAMIC HEAD
EX	EXISTING	TEMP	TEMPERATURE
		TYP	TYPICAL
F	FAHRENHEIT		
FDC	FIRE DEPARTMENT (HOSE) CONNECTION		
FS	FLOW SWITCH		
GAL	GALLON		
GPM	GALLONS PER MINUTE		
HP	HORSEPOWER		
L/S	LITER PER SECOND		

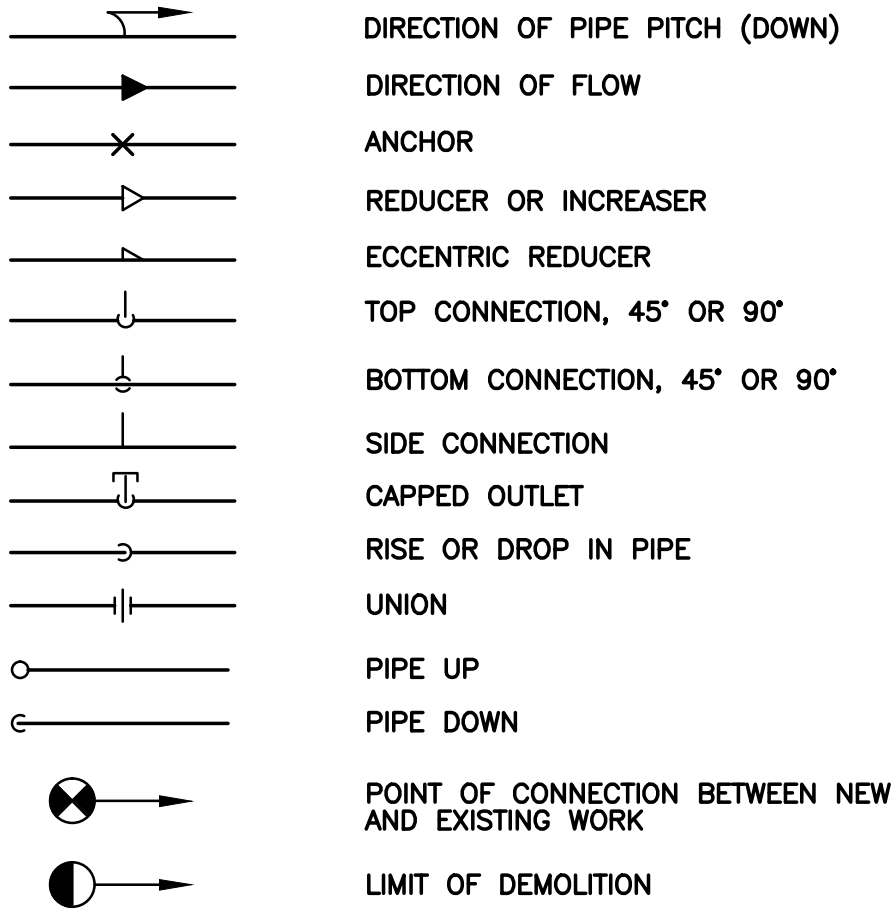
FIRE PROTECTION PIPING SYMBOLS

— EXSP —	EXISTING SPRINKLER LINE
— SP —	SPRINKLER LINE

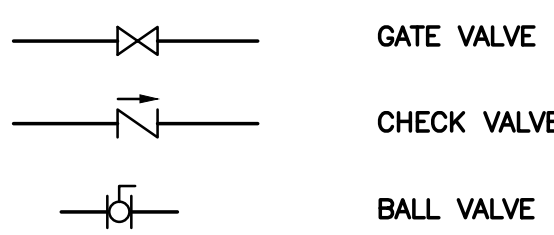
DRAWING SYMBOLS



GENERAL FIRE PROTECTION SYMBOLS



FIRE PROTECTION VALVE SYMBOLS



FIRE PROTECTION CRITERIA

- A. MODIFY EXISTING SPRINKLER SYSTEM AS REQUIRED IN ORDER TO ACCOMMODATE RENOVATED AREA(S) AS INDICATED ON DRAWINGS. ALL MODIFIED AREAS, UPON COMPLETION OF WORK, SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 13), DEPARTMENT OF DEFENSE INSTRUCTIONS, AND OWNER'S FIRE INSURANCE UNDERWRITERS.
- B. THE INFORMATION SHOWN ON THE DRAWINGS AND LISTED IN THE SPECIFICATIONS SHALL NOT BE INTERPRETED AS TO INSTRUCT THE CONTRACTOR TO NOT FOLLOW THE APPLICABLE CODES OR LOCAL AMENDMENTS. WHERE THE INFORMATION PROVIDED IS BELIEVED NOT TO BE IN CONFORMANCE WITH THE CODE REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER FOR CLARIFICATION PRIOR TO THE SUBMISSION OF THIS BID PROPOSAL.
- C. ALL FIRE PROTECTION PIPING, EQUIPMENT, DEVICES, AND SPRINKLER HEADS SHOWN ON FIRE PROTECTION DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY TO REPRESENT THE GENERAL SCOPE OF WORK. FINAL FIRE PROTECTION SYSTEM DESIGN AND LAYOUT (INCLUDING SPRINKLER HEAD QUANTITIES AND LOCATIONS AND THEIR SPECIFIC SPACING REQUIREMENTS) IS THE SOLE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. INSTALLATION DRAWINGS SHOWING THE ENTIRE FIRE PROTECTION SYSTEM(S) SHALL BE GENERATED BY THE FIRE PROTECTION CONTRACTOR. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE BUILDING'S ARCHITECTURAL AND STRUCTURAL FEATURES.
- D. REFERENCES IN THIS PERFORMANCE CRITERIA OR IN THE SPECIFICATIONS TO NFPA STANDARDS AS DESIGN AND INSTALLATION GUIDANCE OF FIRE PROTECTION SYSTEMS, INVOLVE ALL OF THE SECTIONS, SUBSECTIONS, EXCEPTIONS AND ADVISORY PROVISION OF THE STANDARDS THAT ARE APPLICABLE TO THE PROJECT'S REQUIREMENTS; THEY ARE HEREBY INCLUDED IN THE PROJECT CRITERIA AND SPECIFICATIONS AS IF REPEATED IN THEIR ENTIRETY, AND ARE REFERENCED TO CONVEY THE MINIMUM ACCEPTABLE PERFORMANCE AND INSTALLATION REQUIREMENTS.
- E. REFERENCES TO PROVIDING SPRINKLERS PER THE REQUIREMENTS OF NFPA MANDATES THAT ALL BUILDING AREAS SHALL BE PROVIDED WITH COMPLETE, FULL SPRINKLER PROTECTION, UNLESS SPECIFIC NOTATION IS MADE TO THE CONTRARY ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- F. THE ENTIRE AREA OF WORK SHALL BE FULLY SPRINKLERED. FIRE PROTECTION SYSTEM SHALL CONSIST OF A WET PIPE SPRINKLER SYSTEM.
- G. THE WET PIPE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND SHALL BE BASED UPON A MINIMUM OF 0.1 GPM PER SQ. FT OVER THE MOST REMOTE 1,500 SQ. FT AREA WITH SPRINKLER HEADS SPACED AT A MAXIMUM OF 225 SQ. FT. PER HEAD.
- H. UNLESS NOTED OTHERWISE, SPRINKLER HEADS IN FINISHED CEILINGS SHALL BE ADJUSTABLE, SEMI-RECESSED WITH CHROME ESCUTCHEON. FOR OTHER AREAS WHERE CEILINGS ARE NOT INSTALLED, EXTENDED COVERAGE HEADS SHALL BE USED WHERE APPLICABLE AND SHALL BE INSTALLED IN ACCORDANCE WITH THEIR SPECIFIC LISTING(S). SPRINKLER HEADS INSTALLED IN LIGHT HAZARD AREAS SHALL BE QUICK RESPONSE.
- I. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES ON THE LONG AND SHORT AXIS OF THE TILE. SPRINKLER HEADS SHALL NOT BE CLOSER THAN 12 INCHES TO AIR DIFFUSERS AND GRILLES IN FINISHED CEILINGS.
- J. THE TOTAL PROJECT FIRE FLOW IS APPROXIMATELY 165 GPM.
- K. A WATER FLOW TEST SHALL BE CONDUCTED BY THE FIRE PROTECTION CONTRACTOR ON THE WATER DISTRIBUTION SYSTEM TO DETERMINE THE RATE OF FLOW AND PRESSURES AVAILABLE FOR SYSTEM DESIGN AND FOR FIRE FIGHTING PURPOSES. HYDRAULIC WATER SUPPLY DATA USED IN THE FIRE PROTECTION CONTRACTOR'S HYDRAULIC CALCULATIONS SHALL BE TAKEN FROM FLOW TEST(S) CONDUCTED NOT MORE THAN NINE MONTHS PRIOR TO THE COMMENCEMENT OF THE SYSTEM INSTALLATION.
- L. PLASTIC PIPE SHALL NOT BE PERMITTED.
- M. SPRINKLER SYSTEMS SHALL BE PROVIDED WITH DRAINS AS REQUIRED BY NFPA 13. AUXILIARY DRAINS SHALL BE PROVIDED FOR ALL SYSTEM LOW POINTS. PIPING SHALL BE EXTENDED AS REQUIRED (WITH SUFFICIENT SLOPE) FROM THE DRAIN CONNECTION TO THE BUILDING EXTERIOR. IF PHYSICAL CONSTRAINTS WITHIN THE BUILDING WILL NOT ALLOW DRAIN LINES TO BE EXTENDED TO THE EXTERIOR, THEY SHALL BE PIPED TO A DRAIN CONNECTION WITHIN THE BUILDING CAPABLE OF RECEIVING SYSTEM DRAINAGE FLOW WHEN THE DRAIN VALVE IS IN THE FULL OPEN POSITION.
- N. COORDINATE WITH ELECTRICAL AND HVAC DRAWINGS FOR LIGHT FIXTURES, SPEAKERS, DIFFUSERS, GRILLES AND OTHER CEILING MOUNTED DEVICES.
- O. COORDINATE SPRINKLER PIPING, EQUIPMENT, HEADS, APPURTENANCES, ETC. WITH THAT OF OTHER TRADES SO THAT SPRINKLER WORK WILL BE INSTALLED IN THE MOST DIRECT MANNER AND SO THAT INTERFERENCE BETWEEN PIPING, DUCTS, EQUIPMENT, AND ARCHITECTURAL OR STRUCTURAL FEATURES WILL BE AVOIDED. SPRINKLER PIPING, EQUIPMENT, HEADS, APPURTENANCES, ETC. INSTALLED IN AN ARBITRARY MANNER WITHOUT REGARD FOR WORK OF OTHER TRADES WILL BE REJECTED IN ANY SITUATION WHERE AN UNDESIRABLE CONDITION OR AN UNFAIR HARDSHIP FOR OTHER TRADES, OR OWNER, RESULTS.
- P. SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS BEARING THE DESIGNER'S SIGNATURE AND EITHER A PROFESSIONAL ENGINEER'S SEAL OR NICET III CERTIFICATION NUMBER SHALL BE PREPARED AND SUBMITTED TO THE FOLLOWING:
- FORT DETRICK FIRE & EMERGENCY SERVICES
OWNER'S FIRE INSURANCE UNDERWRITER.
- Q. COPIES OF SUBMITTAL LETTERS REQUESTING PLANS REVIEW AND APPROVAL ADDRESSED TO THE AGENCIES IDENTIFIED ABOVE SHALL BE SUBMITTED WITH SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ARCHITECT. SHOP DRAWINGS WILL NOT BE REVIEWED UNTIL SUBMITTAL LETTERS HAVE BEEN RECEIVED. SUBMIT COPIES OF INSURANCE COMPANY AND FIRE MARSHAL'S LETTERS OF APPROVAL AND ANY ADDITIONAL REVIEW COMMENTS TO THE ARCHITECT.

CONSULTANTS:

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221 West Philadelphia Street
York, PA 17401



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YORK | STATE COLLEGE

PROJECT No.
2013012.00

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CHECKED BY:
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Drawing Title

SYMBOLS & ABBREVIATIONS

Approved: Project Director

Project Title

ADD AUDIOLOGY BOOTH TO
FORT DETRICK

Location

FORT DETRICK, FREDERICK, MD

Date

05.17.2013

Checked

-

Drawn

-

Project Number

613-13-113

Building Number

613GG

Drawing Number

613GG-F001

Dwg. 5 of 12

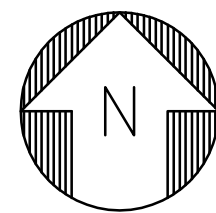
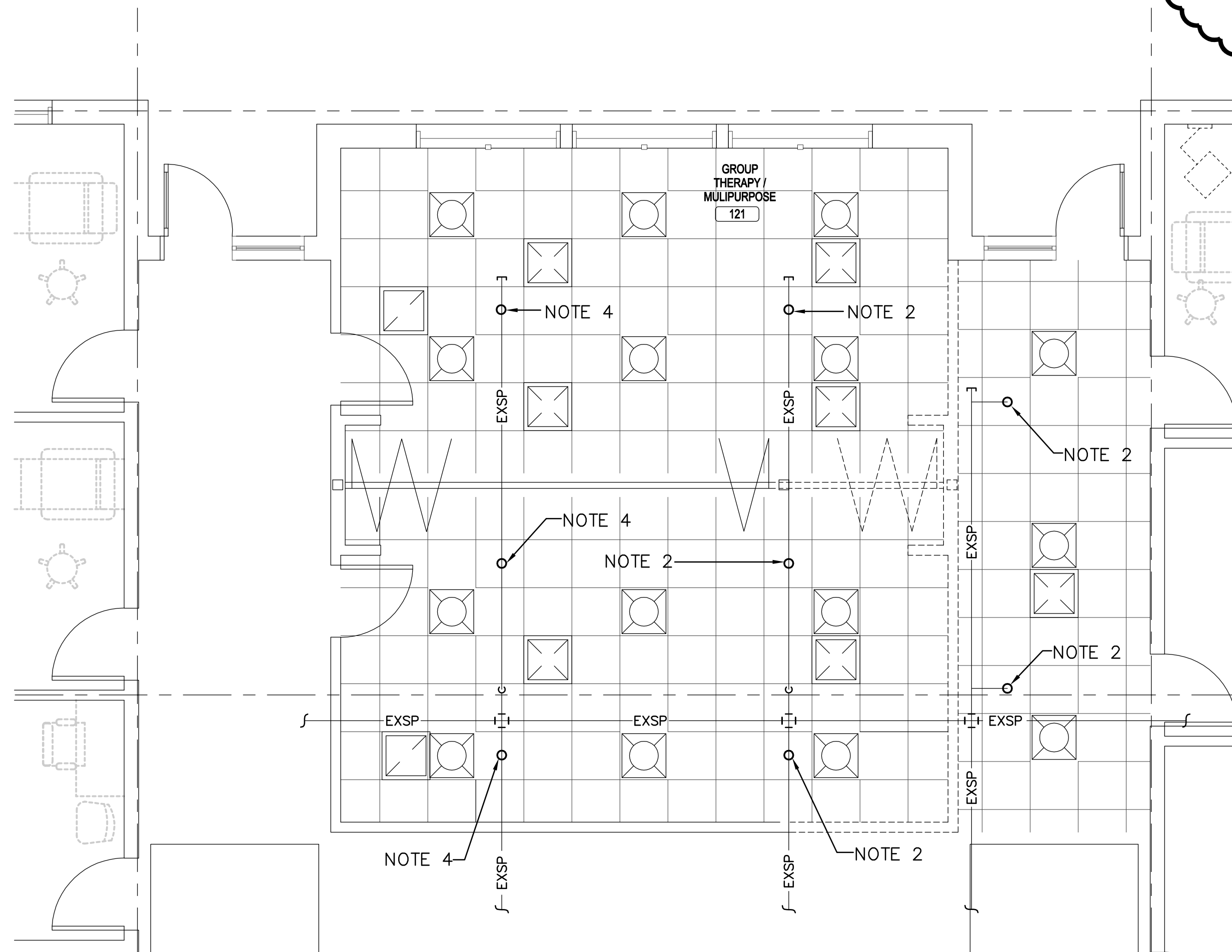
Office of
Construction
and Facilities
Management



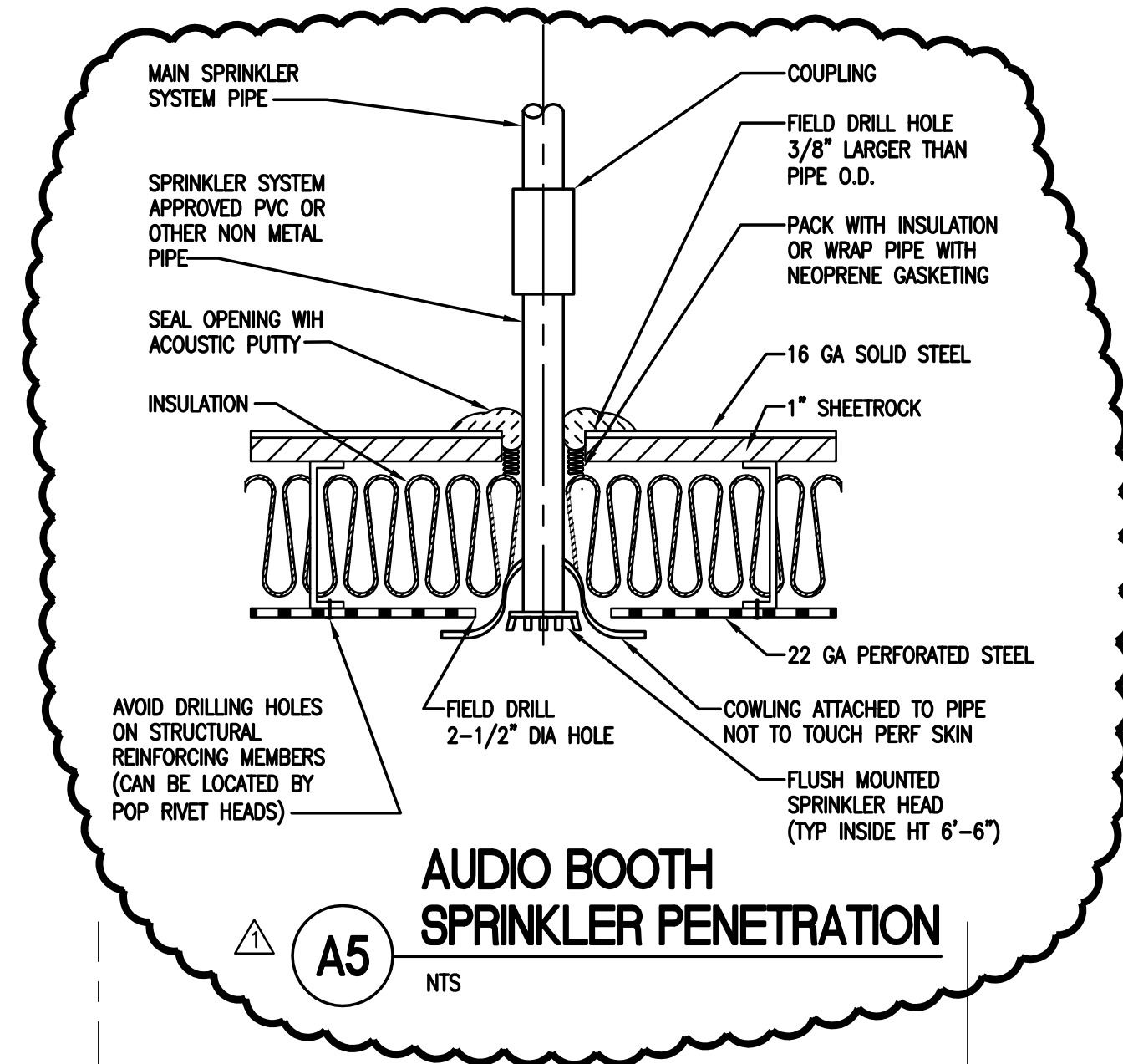
Department of
Veterans Affairs

one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot

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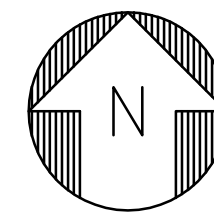
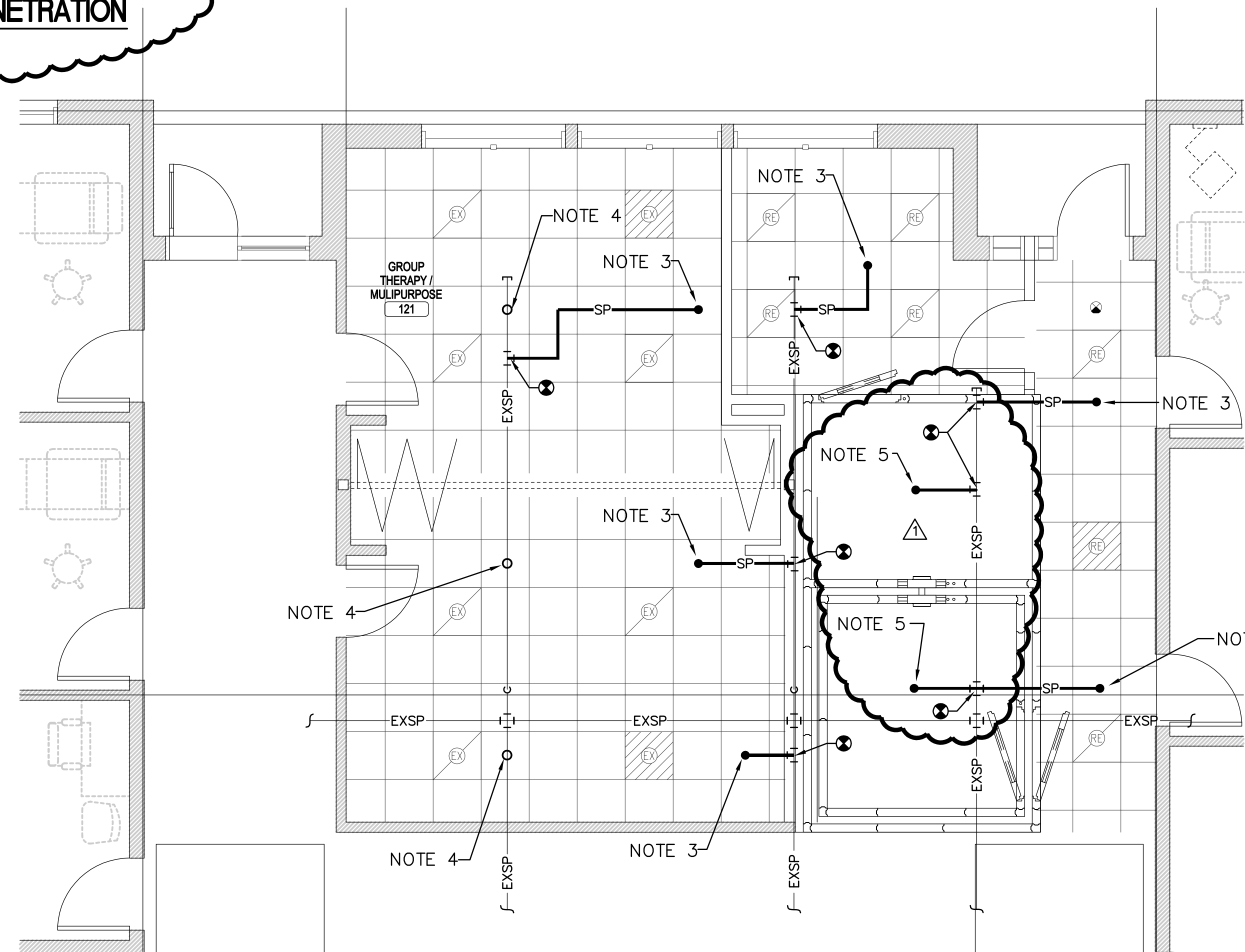


PARTIAL FIRST FLOOR PLAN —
DEMOLITION — FIRE PROTECTION
SCALE: 1/4"=1'-0" NOTE 1

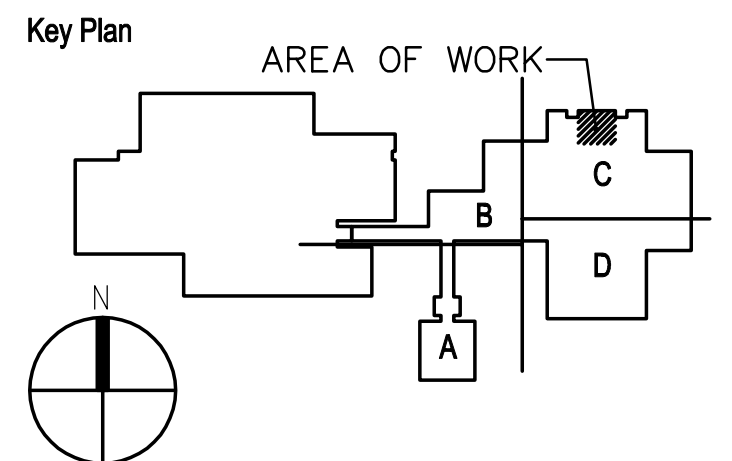


NOTES:

1. ALL EXISTING FIRE PROTECTION EQUIPMENT AND PIPING SHALL REMAIN UNLESS NOTED OTHERWISE.
2. REMOVE EXISTING SPRINKLER HEAD. CAP PIPING AT CONNECTION TO BRANCH MAIN FOR EXTENSION TO NEW SPRINKLER HEAD.
3. EXTEND SPRINKLER PIPING FROM EXISTING BRANCH MAIN TO NEW SPRINKLER HEAD LOCATION.
4. EXISTING SPRINKLER HEAD AND PIPING SHALL REMAIN.
5. FURNISH AND INSTALL SPRINKLER HEAD TO SERVE AUDIO BOOTH. PENETRATE BOOTH IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND DETAIL A5 ON THIS SHEET. COORDINATE EXACT LOCATION OF SPRINKLER HEAD WITH AUDIO BOOTH MANUFACTURER.



PARTIAL FIRST FLOOR PLAN —
FIRE PROTECTION
SCALE: 1/4"=1'-0"



<div>REVISION 106.25.13</div> <div>RevisionsDate</div>		<div>CONSULTANTS:</div> <div>BartonAssociates Consulting Engineers Susquehanna Commerce Center North Building 221 West Philadelphia Street York, PA 17401 Tel.: (717) 845-7654 Web: www.ba-inc.com</div> <div>YORK STATE COLLEGE PROJECT NO. 2013012.00 DRAIN BY: EPS DESIGNED BY: EPS CHECKED BY: DJB</div> <div>We Make Buildings Work.</div>		<div>ARCHITECT/ENGINEERS:</div> <div>SAarchitects 600 North Hartley Street, Suite 150 T 717.843.3200 F 717.699.0205 York, PA 17404 www.saaarchitects.com</div>		<div>Drawing Title</div> <div>PARTIAL DEMOLITION & FIRST FLOOR PLAN - FIRE PROTECTION</div> <div>Approved: Project Director</div>		<div>Project Title</div> <div>ADD AUDIOLOGY BOOTH TO FORT DETRICK</div> <div>Location FORT DETRICK, FREDERICK, MD</div> <div>Date 05.17.2013</div> <div>Checked -</div> <div>Drawn -</div>		<div>Project Number</div> <div>613-13-113</div> <div>Building Number</div> <div>613GG</div> <div>Drawing Number</div> <div>613GG-F101</div> <div>Dwg. 6 of 12</div>		<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>	
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GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
5. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

AIR TERMINAL SYMBOLS



TERMINAL UNIT WITH REHEAT COIL

CONTROLS SYMBOLS

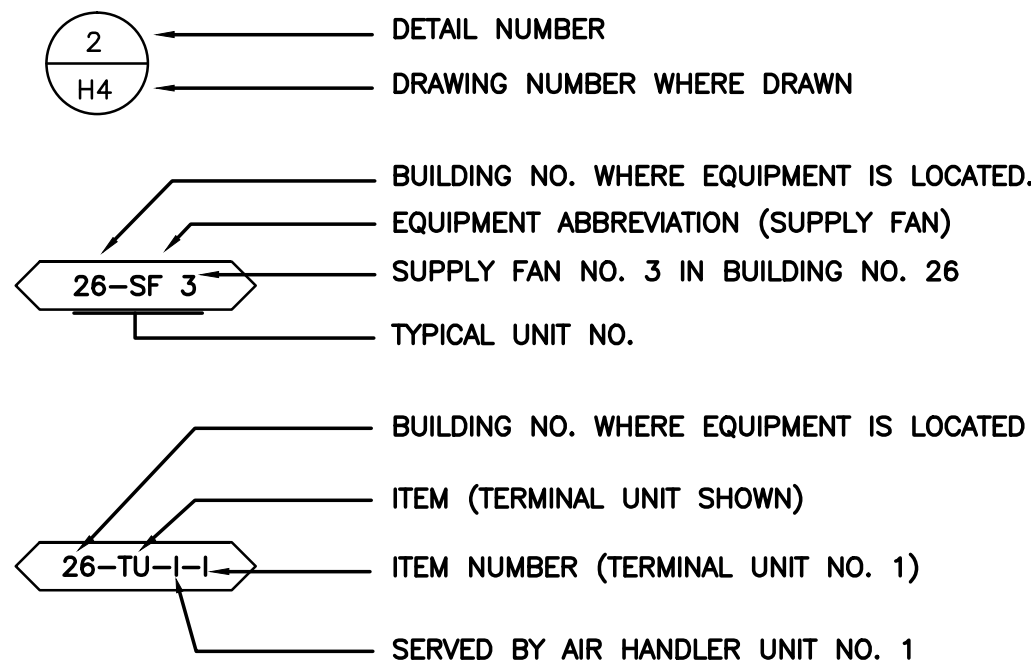


ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT

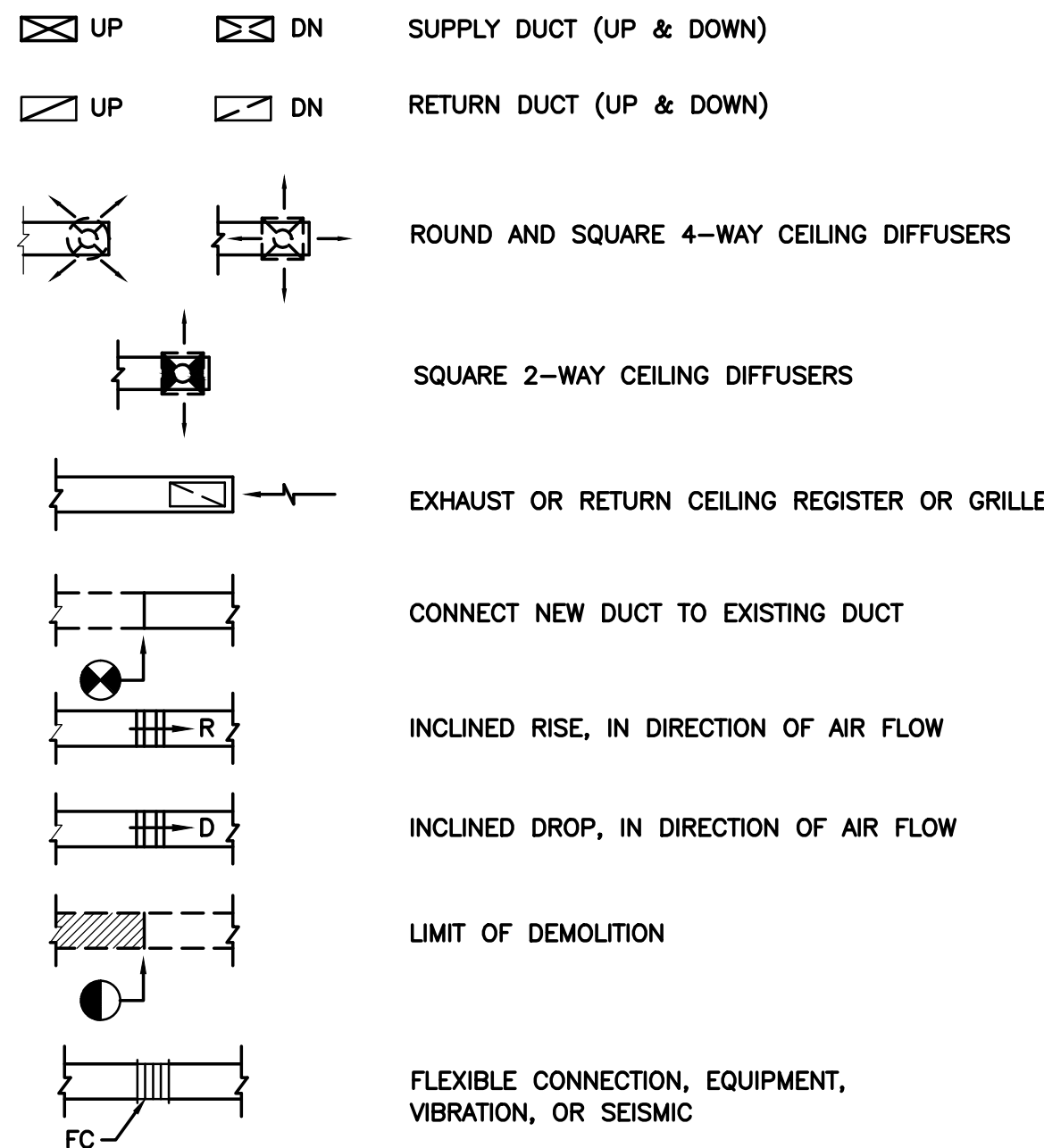
ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	IN WC	INCH WATER COLUMN
AD	ACCESS DOOR	KW	KILOWATT
AHU	AIR-HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
AMP	AMPERE	NC	NOISE CRITERIA
APD	AIR PRESSURE DROP	PD	PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE	PSI	POUNDS PER SQUARE INCH
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	RA	RETURN AIR
		RG	RETURN GRILLE
BTU	BRITISH THERMAL UNIT	SA	SUPPLY AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	SD-1	SCHEMATIC DESIGN (SUBMISSION1)
CD	CEILING DIFFUSER	SD-2	SCHEMATIC DESIGN (SUBMISSION2)
CD-1	CONSTRUCTION DOCUMENTS (SUBMISSION1)	TSTAT	THERMOSTAT
CD-2	CONSTRUCTION DOCUMENTS (SUBMISSION2)	UL	UNDERWRITERS LABORATORY
CFM	CUBIC FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
DB	DECIBELS	VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
Db	DRY-BULB TEMPERATURE	W	WATTS
DD-1	DESIGN DEVELOPMENT (SUBMISSION1)		
DD-2	DESIGN DEVELOPMENT (SUBMISSION2)		
DDC	DIRECT DIGITAL CONTROLS		
DA	DIAMETER		
EAT	ENTERING AIR TEMPERATURE		
ENT	ENTERING		
EX	EXISTING		
F	FAHRENHEIT		
FC	FLEXIBLE CONNECTION		
FPM	FEET PER MINUTE		
FV	FACE VELOCITY		

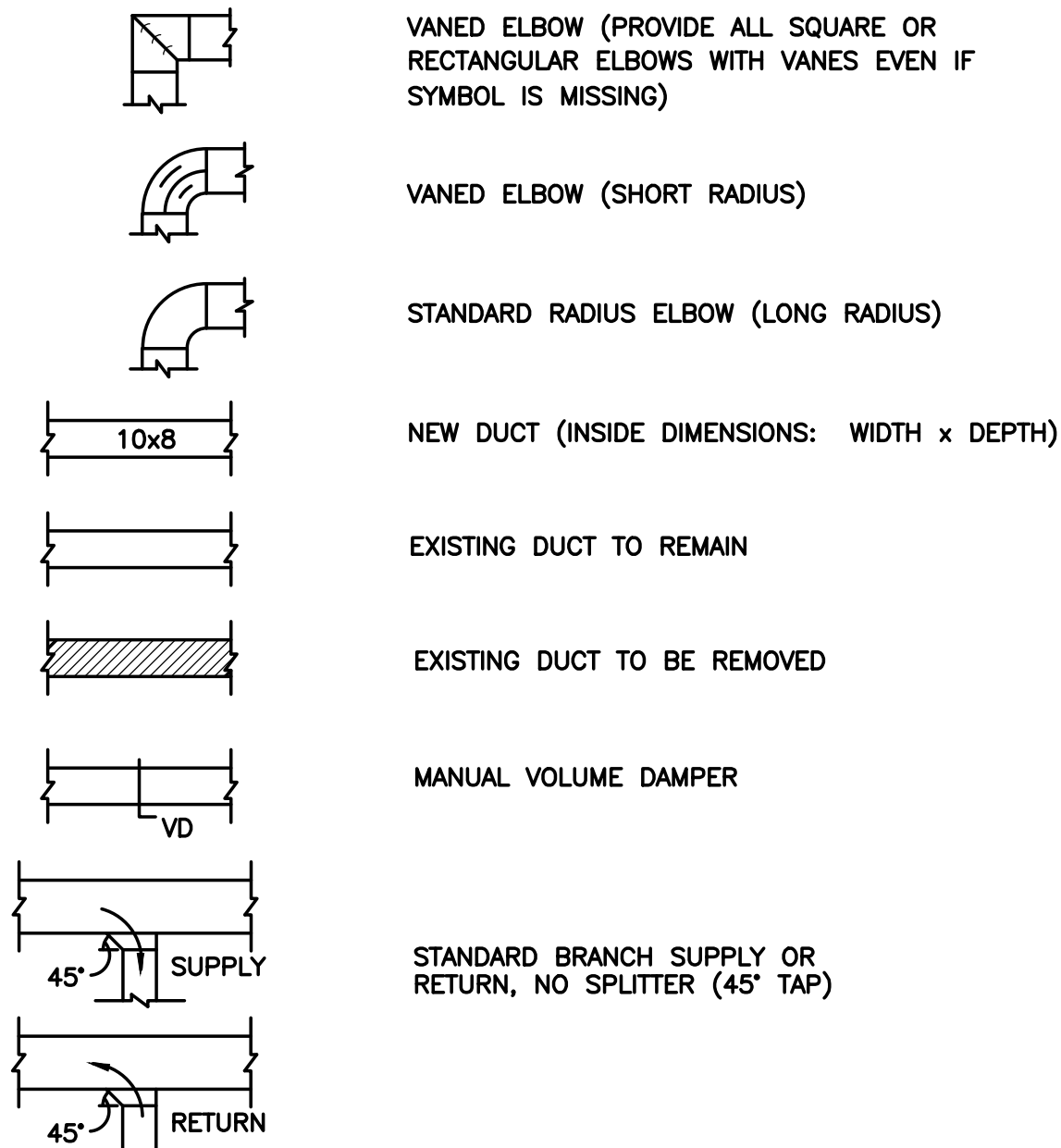
DRAWING SYMBOLS



DUCTWORK SYMBOLS



DUCTWORK SYMBOLS





1. UNLESS NOTED OTHERWISE, ALL MECHANICAL ITEMS SHALL REMAIN.
2. EXISTING DUCT TAP, VOLUME DAMPER, FLEXIBLE DUCTWORK, AND DIFFUSER SHALL BE REMOVED TO LOCATION SHOWN.
3. DUCT SHALL BE PATCHED WITH SHEETMETAL, SEALED AIRTIGHT, AND INSULATED TO MATCH ADJACENT.
4. REBALANCE RETURN REGISTER TO 350 CFM.
5. REBALANCE RETURN REGISTER TO 210 CFM.
6. REBALANCE EXISTING RETURN BRANCH DUCTS TO CFM INDICATED IN PARENTHESIS.
7. REBALANCE SUPPLY BRANCH DUCT TO 2,240 CFM.

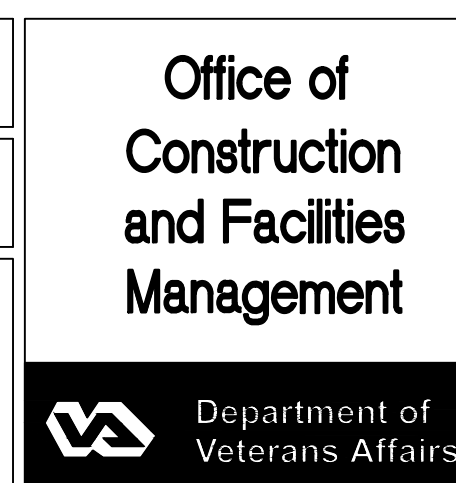
8. EXISTING THERMOSTATS SHALL BE RELOCATED TO THE NEW WALL. EXTEND CONTROL WIRING AS REQUIRED.
9. EXISTING CEILING DIFFUSER SHALL BE RELOCATED IN THE CEILING GRID TO LOCATION SHOWN. EXTEND FLEXIBLE DUCTWORK AS REQUIRED. REBALANCE TO CFM INDICATED.
10. UNLESS NOTED OTHERWISE, FLEXIBLE DUCTWORK SHALL BE THE SAME SIZE AS THE DIFFUSER INLET CONNECTION.
11. SUPPLY AIR TO SOUND BOOTH SHALL BE BALANCED TO 75 CFM. FURNISH AND INSTALL A SQUARE TO ROUND FITTING FOR CONNECTION OF FLEXIBLE DUCTWORK TO THE SOUND BOOTH. FLEXIBLE DUCTWORK TO THE SOUND BOOTH SHALL BE 6"Ø. TYPICAL FOR ALL BOOTH SUPPLY CONNECTIONS.
12. 10x10 RA DOWN TO SOUND BOOTH RETURN

16. COORDINATE WITH SOUND BOOTH MANUFACTURER
FOR THERMOSTAT LOCATION AND INSTALLATION

17. FOR CONTINUITY AND INTEGRATION, THE THERMOSTATS SHALL BE THE SAME MAKE AND MODEL AS THE EXISTING UNITS SERVING THE REMAINDER OF THE BUILDING.
18. FOR CONTINUITY AND INTEGRATION, THE VAV BOXES SHALL BE THE SAME MAKE AND MODEL AS THE EXISTING UNITS SERVING THE REMAINDER OF THE BUILDING.
19. FOR CONTINUITY AND INTEGRATION, ALL GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME MAKE AND MODEL AS THE EXISTING UNITS SERVING THE REMAINDER OF THE BUILDING.



Department of
Veterans Affairs



SINGLE DUCT AIR TERMINAL UNIT SCHEDULE																
MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	SIZE	COOLING AIR FLOW				ADDITIONAL SOUND ATTENUATION REQUIRED	CONTROL TYPE	CONTROL SEQUENCE	REHEAT			PERIMETER SUPPLEMENTAL HEAT LINK	REMARKS
					MAX		MIN					HW	ELEC	NONE		
					CFM	[L/s]	CFM	[L/s]								
613GG-TU-1-19	CORRIDOR C03	BOOTH/OFFICE	EXISTING AHU-1	5"	305	[140]	155	[73]	NONE	VAV	5 DEGREE DEADBAND	-	X	-	NONE	613GG-EHC1 ELECTRIC REHEAT COIL
613GG-TU-1-20	CORRIDOR C03	BOOTH	EXISTING AHU-1	4"	75	[35]	75	[35]	NONE	VAV	5 DEGREE DEADBAND	-	X	-	NONE	613GG-EHC2 ELECTRIC REHEAT COIL

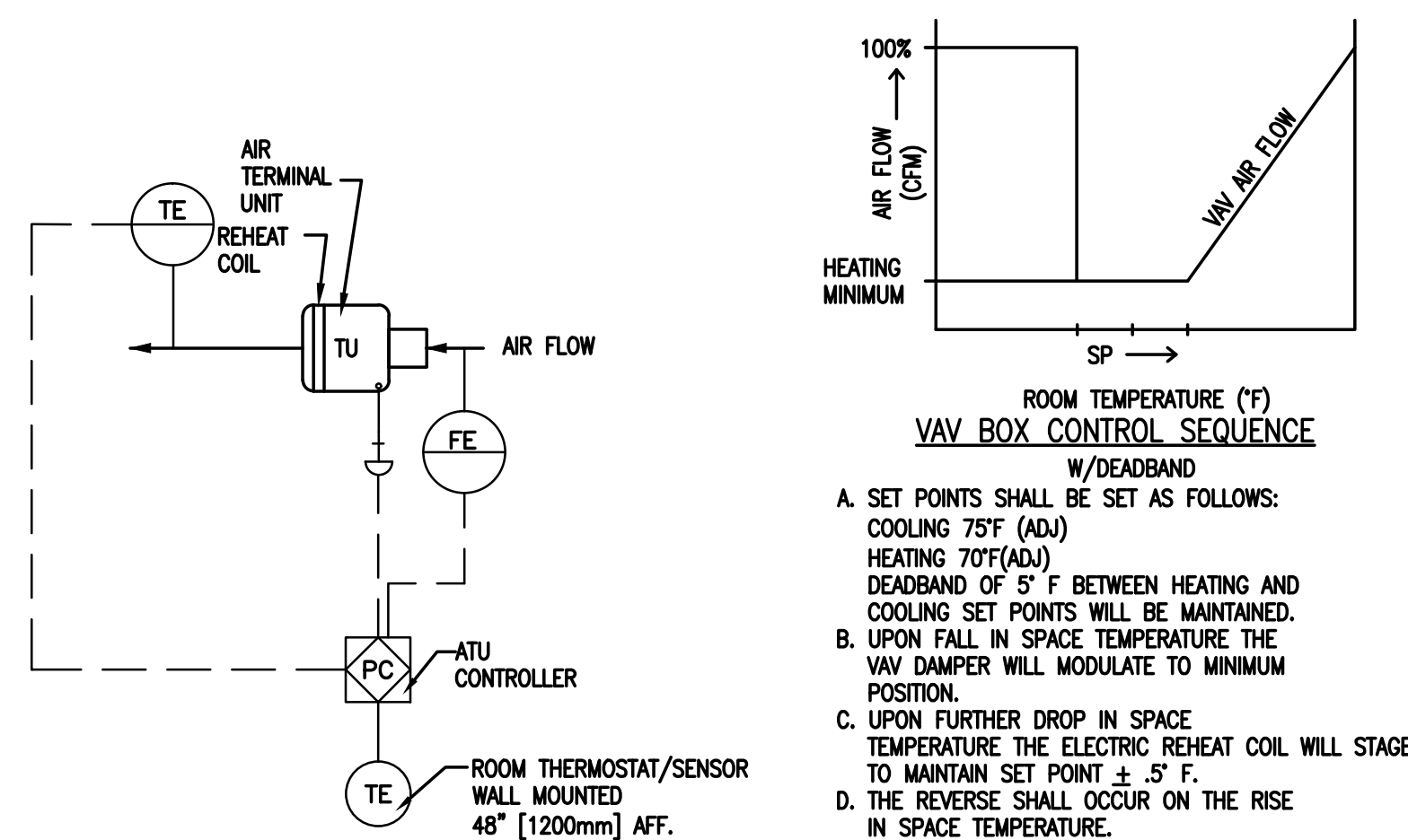
AIR DEVICE SCHEDULE (SUPPLY)																
MARK	TYPE	AIR FLOW				MAX APD	MOUNTING	PANEL/FRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS	
		MIN		MAX				IN x IN	[mm x mm]	IN	[mm]					
		CFM	[L/s]	CFM	[L/s]	IN WG										[Pa]
SD-1	LOUVERED FACE	0	[]	230	[110]	0.100	[25]	CEILING	24 x 24	[600 x 600]	8 ø	[203 ø]	10	OPPOSED BLADE	WHITE	-----
SD-2	LOUVERED FACE	0	[]	175	[83]	0.100	[25]	CEILING	24 x 24	[600 x 600]	8 ø	[203 ø]	10	OPPOSED BLADE	WHITE	-----

NOTES
1. SEE FLOOR PLAN FOR THROW PATTERN.
2. SEE DETAIL FOR DAMPER IN BRANCH DUCT SERVING EACH DIFFUSER
3. PROVIDE SQUARE TO ROUND ADAPTER.

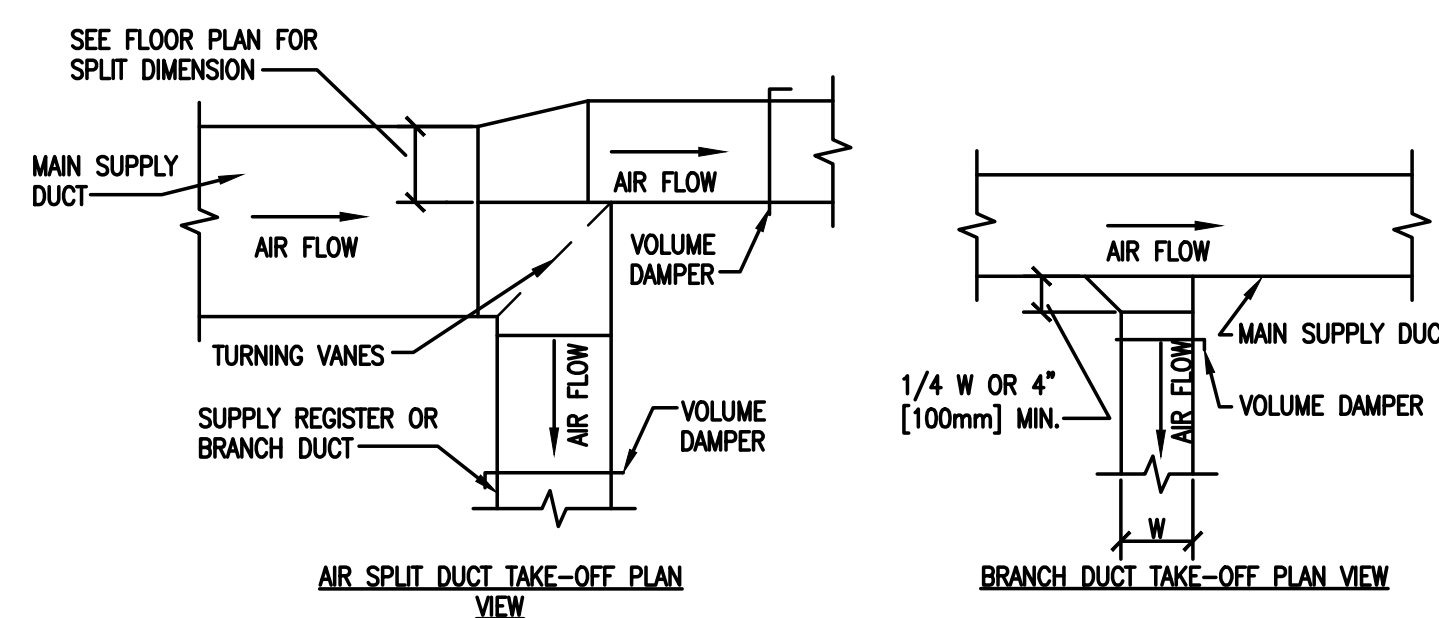
AIR DEVICE SCHEDULE (RETURN)																
MARK	TYPE	AIR FLOW				MAXAPD		MOUNTING	PANEL/FRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS
		MIN		MAX					IN x IN	[mm x mm]	IN x IN	[mm x mm]				
		CFM	[L/s]	CFM	[L/s]	IN WG	[Pa]									
RG-1	PERFORATED	0	[]	230	[110]	0.088	22.000	CEILING	24 x 24	[600 x 600]	8 x 8	[200 x 200]	13	OPPOSED BLADE	WHITE	-----

NOTE
PROVIDE SQUARE TO ROUND ADAPTER.

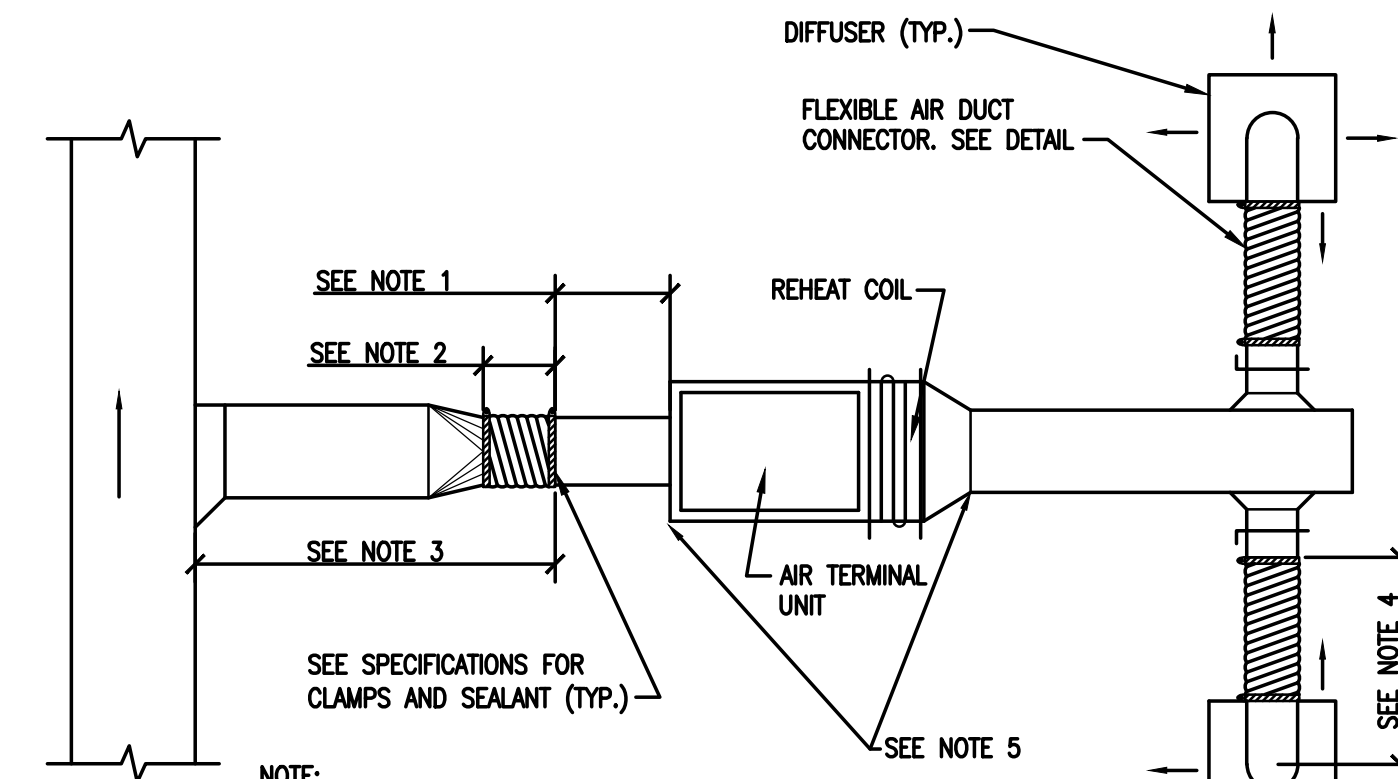
ELECTRIC TERMINAL UNIT MOUNTED HEATING COIL SCHEDULE																	
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	AIR FLOW		EAT		LAT		APD		CAPACITY		POWER		CONTROL TYPE	REMARKS
				CFM	[L/s]	°F	[°C]	°F	[°C]	IN WG	[Pa]	BTUH	[W]	PHASE	VOLT		
613GG-BHC1	613GG-TU-1-19	EXISTING AHU-1	VAV REHEAT COIL	305	[140]	55	[13]	96	[36]	0.043	[11]	6824	[2000]	1	208	2-STEP	-
613GG-BHC2	613GG-TU-1-20	EXISTING AHU-1	VAV REHEAT COIL	75	[35]	55	[13]	97	[36]	0.020	[5]	3412	[1000]	1	208	2-STEP	-



VARIABLE VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM



SUPPLY DUCTWORK TAKE-OFFS

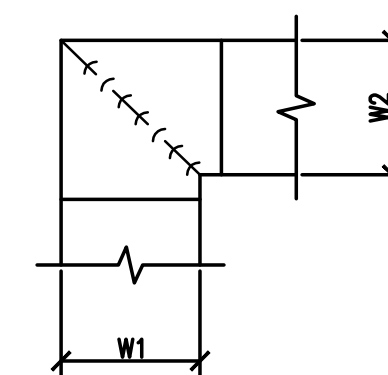


NOTE:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0" [900mm].
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET. PROVIDED THE MINIMUM LENGTH OF THE BRANCH DUCT AS SHOWN DOES NOT EXCEED 10 FEET (3 METERS). FOR LONGER LENGTHS, INCREASE THE DUCT AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW $0.2"/100'$ [1.64Pa/m].
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0" [1500mm]. USE RIGID ELBOWS FOR CHANGES OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.

DUCT CONNECTIONS - AIR TERMINAL UNITS

NTS

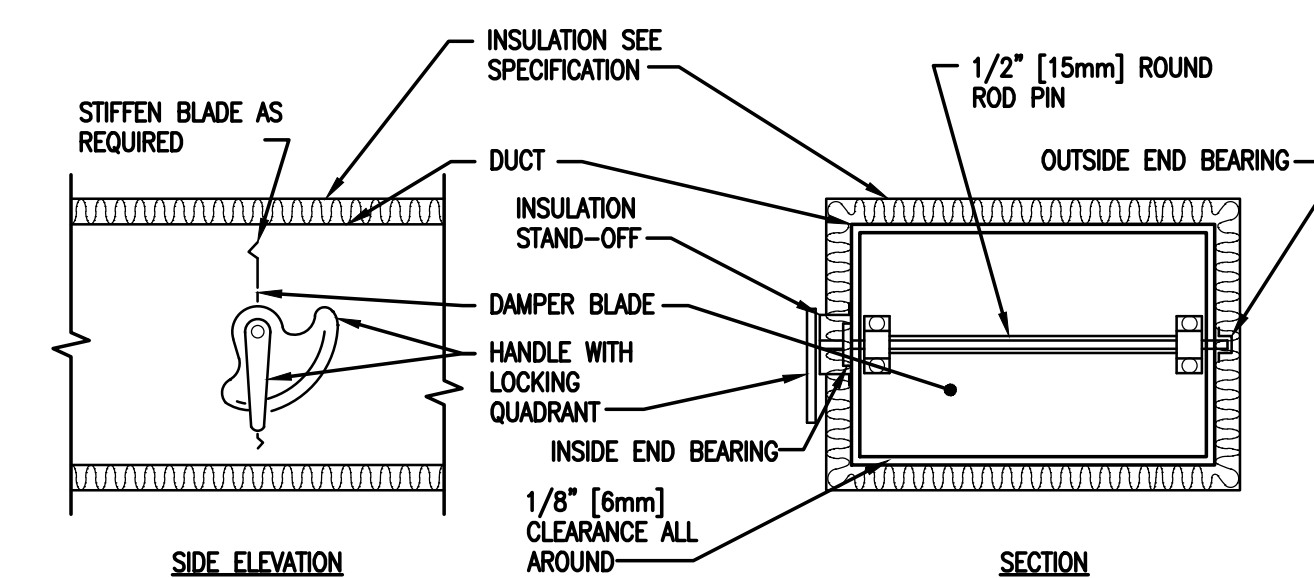


NOTE:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1 1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

DUCTWORK SQUARE VANE ELBOWS

NTS

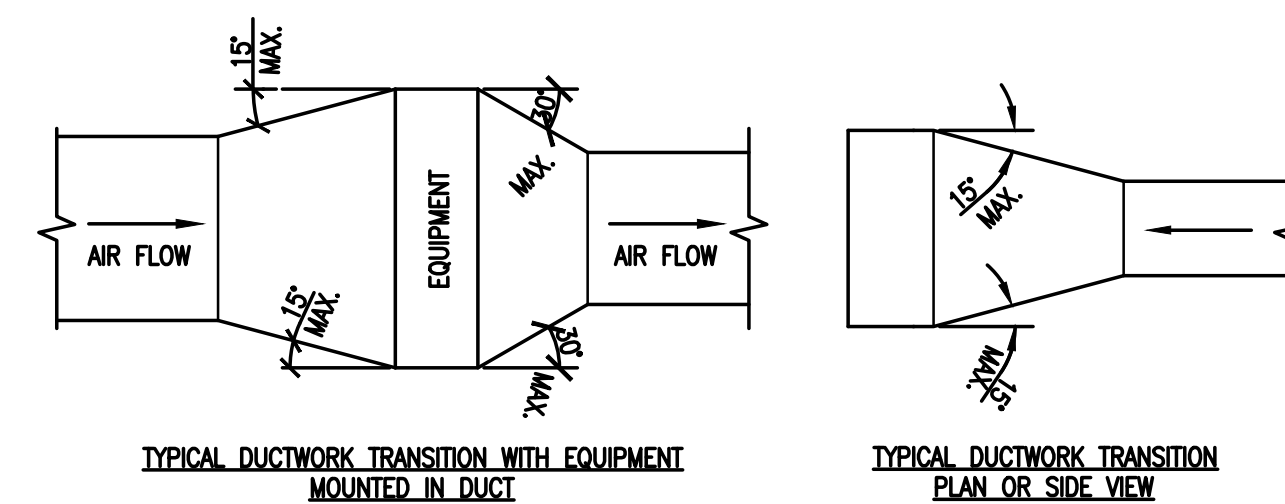


NOTE:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

VOLUME DAMPER DETAIL

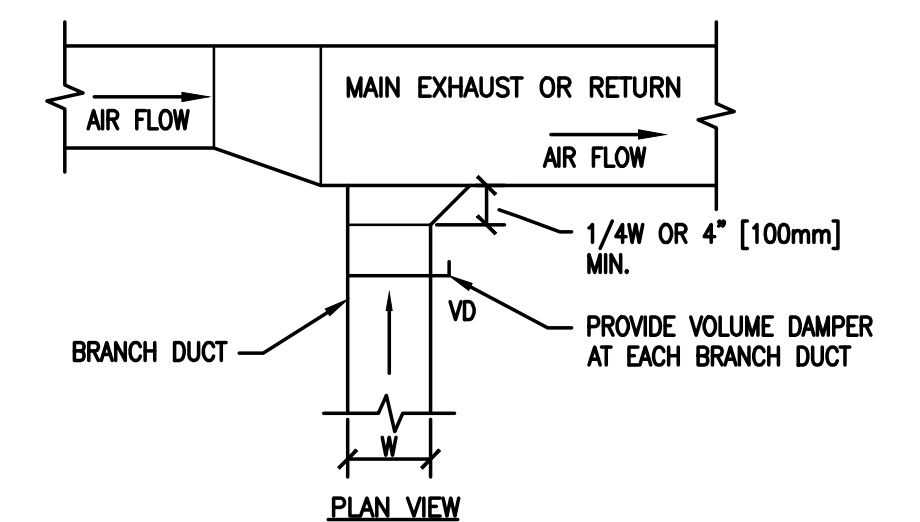
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NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

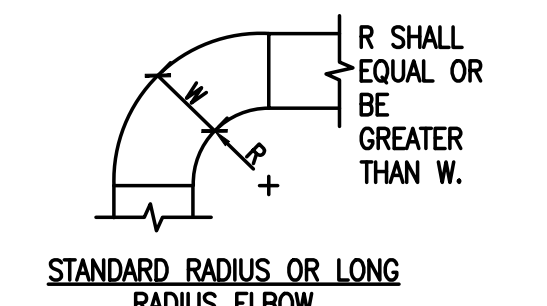
DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)

NT



EXHAUST OR RETURN BRANCH DUCTWORK

NTS





NOTE:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.

58 DUCTWORK RADIUS ELBOWS

NTS

		CONSULTANTS:					ARCHITECT/ENGINEERS:				Drawing Title		Project Title		Project Number		<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>										
		<div><div>BartonAssociates Consulting Engineers</div><div></div><div>Susquehanna Commerce Center North Building 221 West Philadelphia Street York, PA 17401</div><div>Tel.: (717) 845-7054 Web: www.ba-inc.com</div><div><i>We Make Buildings Work.</i></div></div>					<div></div> <div>SAarchitects</div> <div>600 North Hartley Street, Suite 150 T 717.843.3200 F 717.699.0205 York, PA 17404 www.saaarchitects.com</div>				DETAILS & SCHEDULES		ADD AUDIOLOGY BOOTH TO FORT DETRICK		613-13-113												
											Approved: Project Director		Location FORT DETRICK, FREDERICK, MD		Building Number 613GG			Drawing Number 613GG-M501 Dwg. 9 of 12									
Revisions:	Date												Date 05.17.2013	Checked -	Drawn -												
		<table><tr><th colspan="4">YORK STATE COLLEGE</th></tr><tr><td>PROJECT NO. 2013012.00</td><td>DRAWN BY: RGG</td><td>DESIGNED BY: RGG</td><td>CHECKED BY: DJB</td></tr></table>				YORK STATE COLLEGE				PROJECT NO. 2013012.00	DRAWN BY: RGG	DESIGNED BY: RGG	CHECKED BY: DJB														
YORK STATE COLLEGE																											
PROJECT NO. 2013012.00	DRAWN BY: RGG	DESIGNED BY: RGG	CHECKED BY: DJB																								

ELECTRICAL SYMBOLS - LIGHTING PLAN

ELECTRICAL SYMBOLS - POWER PLAN

ELECTRICAL ABBREVIATIONS

SWITCH
BLANK = SINGLE POLE
3 = THREE-WAY
D = DIMMER
LV= LOW VOLTAGE
LM= LOW VOLTAGE MASTER
PB= PUSH BUTTON STATION
T = TIMER OPERATED
Mo= OCCUPANCY SENSOR

4 = FOUR-WAY
K = KEY OPERATED
L = LOCK
P = WITH PILOT LIGHT
RC= REMOTE CONTROL

LIGHT FIXTURE, FLUORESCENT EMERGENCY;
LETTER INDICATES TYPE.

LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x2' [610x610mm]; EXISTING
LIGHT FIXTURE TO REMAIN.

LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x2' [610x610mm]; RELOCATED
EXISTING LIGHT FIXTURE.

LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x2' [610x610mm]; EXISTING
LIGHT FIXTURE TO BE REMOVED AND RELOCATED AS SHOWN ON DRAWINGS.

LIGHT FIXTURE, EXTERIOR; EXISTING LIGHT FIXTURE TO REMAIN.

EXIT SIGN. DARKENED AREA INDICATES FACE. DIRECTIONAL ARROWS AS
SHOWN ON DRAWINGS.

ELECTRICAL SYMBOLS - POWER PLAN

JUNCTION BOX

OCCUPANCY SENSOR

BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS,
NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN
GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT
SHOWN

CEILING OUTLET, DATA COMMUNICATION, WIRELESS ACCESS

TELEPHONE JACK, WALL HUNG 44 INCHES AFF

TELEPHONE JACK, WALL MOUNTED 18 INCHES AFF

DATA JACK, WALL MOUNTED 18 INCHES AFF

TELEPHONE/DATA JACK, WALL MOUNTED 18 INCHES AFF

PUSH BUTTON

DISTRIBUTION PANEL

LIGHTING PANEL

EXISTING PANELBOARD, SURFACE MOUNTED - 120/208V/3 PHASE/4W TO
REMAIN, UNLESS NOTED.

RECEPTACLE, CLOCK HANGER

RECEPTACLE, DUPLEX

RECEPTACLE, DUPLEX ON EMERGENCY POWER

RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER

RECEPTACLE, QUADRAPLEX

RECEPTACLE, DUPLEX, FLUSH WITH OR ABOVE FINISHED CEILING

RECEPTACLE, SINGLE

RECEPTACLE, SINGLE WITH SWITCH

RECEPTACLE, SPECIAL PURPOSE
A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.
D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.
E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.
F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R.
G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-30R.
H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15-60R.

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH, UNFUSED

STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER

VARIABLE FREQUENCY DRIVE

TIME CLOCK

VENTILATOR OR FAN COIL UNIT OUTLET

CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION
TO EQUIPMENT AS DIRECTED.

CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR
EXTENSION TO EQUIPMENT AS DIRECTED.

SWITCH
F = FUSED SWITCH
L = LOCK
M = MANUAL MOTOR STARTING
MP= MOTOR SNAP WITH PILOT LIGHT
(THERMAL TYPE)
PB= PUSH BUTTON STATION
K = KEY OPERATED

SOUND/PAGING SYSTEM SPEAKER

FIRE ALARM STROBE, WALL MOUNTED.

FIRE ALARM STROBE, CEILING MOUNTED.

SECURITY SYSTEM CAMERA

WIRELESS ANTENNA

EXISTING RECEPTACLE, DUPLEX, TO BE REMOVED

EXISTING TELEPHONE/DATA JACK, TO BE REMOVED

BAT
BC
BD
BFF
BIL
BLDG
BPIP
BRKR
BYP

C
CAB
CALC
CAP
CAT
CATV
CCR
CCTV
cd
CD
CF
CF/CI

CF/OI
CFE
CHW
CHWP
CKT
CKT BRKR
CLF
CLG
CMU
COAX
COMM
COMPT
CONC
CONT
CONTR
COORD
CPT
CRI
CT
CTV
CU
CU FT
CUR

AIR CONDITIONING UNIT
ARCHITECT/ENGINEER
ALARM ANNUNCIATOR PANEL
ALTERNATING CURRENT OR ARMORED CABLE
ACCESSIBLE
ADDITIONAL
ADJACENT, ADJOINING
AUTOMATIC DOOR OPENER
AMPERE FRAME OR AMP FUSE
ABOVE FINISHED COUNTER, AUTOMATIC
FREQUENCY CONTROL, OR AVAILABLE FAULT
CURRENT
ABOVE FINISHED FLOOR
ABOVE FINISHED GRADE
AMPERE HOUR
AUTHORITY HAVING JURISDICTION
AMPERE INTERRUPTING CAPACITY
ALTERNATE
AMBIENT
AMPERE
ARCHITECT
AMPS SHORT CIRCUIT
AMPERE TRIP
AUTOMATIC TRANSFER SWITCH
AUTOMATIC
AUDIO VISUAL

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH, UNFUSED

STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER

VARIABLE FREQUENCY DRIVE

TIME CLOCK

VENTILATOR OR FAN COIL UNIT OUTLET

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SOUND/PAGING SYSTEM SPEAKER

FIRE ALARM STROBE, WALL MOUNTED.

FIRE ALARM STROBE, CEILING MOUNTED.

SECURITY SYSTEM CAMERA

WIRELESS ANTENNA

EXISTING RECEPTACLE, DUPLEX, TO BE REMOVED

EXISTING TELEPHONE/DATA JACK, TO BE REMOVED

BATTERY
BARE COPPER
BOARD
BELOW FINISH FLOOR
BASIC INSULATION LEVEL
BUILDING
BOILER PLANT INSTRUMENTATION PANEL
BREAKER
BY PASS

CONDUIT
CABINET
CALCULATE
CAPACITY
CATALOG
COMMUNITY ANTENNA TELEVISION
CONTROL CONTACTOR
CLOSED CIRCUIT TELEVISION
CANDELA
CONSTRUCTION DOCUMENTS
CONTRACTOR FURNISHED
CONTRACTOR FURNISHED/CONTRACTOR
INSTALLED
CONTRACTOR FURNISHED/OWNER INSTALLED
CONTRACTOR FURNISHED EQUIPMENT
CHILLED WATER
CHILLED WATER PUMP
CIRCUIT
CIRCUIT BREAKER
CURRENT LIMITING FUSE
CEILING
CONCRETE MASONRY UNIT
COAX CABLE
COMMUNICATION
COMPARTMENT
CONCRETE
CONTINUE
CONCRETE
COORDINATE
CONTROL POWER TRANSFORMER
COLOR RENDERING INDEX
CURRENT TRANSFORMER
CABLE TELEVISION
COPPER
CUBIC FEET
CURRENT

DB
DC
DCP
DEG C
DEG F
DEMO
DIAG
DISC
DISTR
DISTR PNL
DMR SW
DN
DPDT
DPST
DRSW
DS
DWG

DECIBEL OR DIRECT BURIAL
DIRECT CURRENT
DIMMER CONTROL PANEL
DEGREES CELSIUS
DEGREES FAHRENHEIT
DEMOLITION
DIAGRAM
DISCONNECT
DISTRIBUTION
DISTRIBUTION PANEL
DIMMER SWITCH
DOWN
DOUBLE POLE, DOUBLE THROW
DOUBLE POLE, SINGLE THROW
DOOR SWITCH
DISCONNECT SWITCH
DRAWING

EMPTY CONDUIT
EQUIPMENT GROUND
ELEVATION
ELECTRIC OR ELECTRICAL
ELEVATOR
EMERGENCY MONITORING CONTROL PANEL
EMERGENCY
ELECTROMAGNETIC INTERFERENCE
ELECTRICAL METALLIC TUBING
ENCLOSURE
EMERGENCY POWER OFF
EXPLOSION PROOF
EXISTING TO BE REMOVED AND/OR
RELOCATED
EASEMENT
ELECTRIC WATER COOLER
ELECTRIC WATER HEATER
EXISTING TO REMAIN
EXISTING

FA
FAAP
FABL
FABX
FACP
FC
FI
FIXT
FLA
FLEX
FLT
FLUOR
FLUOR FIX
FOUTT
FP
FT
FU SW
FVNR
FVR

FIRE ALARM
FIRE ALARM ANNUNCIATOR PANEL
FIRE ALARM BELL
FIRE ALARM BOX
FIRE ALARM CONTROL PANEL
FOOTCANDLE
FILM ILLUMINATOR
FIXTURE
FULL LOAD AMPS
FLEXIBLE METALLIC CONDUIT
FLOODLIGHT
FLUORESCENT
FLUORESCENT FIXTURE
TELEPHONE FLOOR OUTLET
FIRE PROTECTION
FEET OR FOOT
FUSED SWITCH
FULL VOLTAGE NON-REVERSING
FULL VOLTAGE REVERSING

G OR GND
GEN
GFCI
GTB

GROUND OR GENERATOR
GENERATOR
GROUND FAULT CIRCUIT INTERRUPTER
GROUND TERMINAL BOX

HID
HOA
HP
HT
HZ

HIGH INTENSITY DISCHARGE
HAND-OFF-AUTOMATIC
HORSEPOWER
HEIGHT
HERTZ

IESNA
IMC
INCAND
IR
IWH

ILLUMINATION ENGINEERING SOCIETY OF
NORTH AMERICA
INTERMEDIATE METAL CONDUIT
INCANDESCENT
INFRARED
INSTANTANEOUS WATER HEATER

J-BOX
JUNCTION BOX

KV
KVA
KVAH
KVAR
KW
KWH
KWHM

KILOVOLT
KILOVOLT AMPERE
KILOVOLT AMPERE PER HOUR
KILOVOLT AMPERE REACTIVE
KILOWATT
KILOWATT HOUR
KILOWATT HOUR METER

LED
LF
LM
LP
LPS
LRA
LTCP
LT
LTG
LTG PNL
LTNG
LV

LIGHT EMITTING DIODE
LINEAR FEET (FOOT)
LUMEN
LIGHT POLE
LOW PRESSURE SODIUM
LOCKED ROTOR AMPS
LOCAL TEMPERATURE CONTROL PANEL
LIGHT
LIGHTING
LIGHTING PANEL
LIGHTNING
LOW VOLTAGE

MATV
MAX
MC
MCA
MCB
MCC
MDP
MECH
MG
MH
MIN
MOCP
MLO
MT
MTD
MTG
MTS
MV
MVA
MW

MASTER ANTENNA TELEVISION SYSTEM
MAXIMUM
METAL-CLAD
MINIMUM CIRCUIT AMPS
MAIN CIRCUIT BREAKER
MOTOR CONTROL CENTER
MAIN DISTRIBUTION PANEL
MECHANICAL
MOTOR GENERATOR
MANHOLE
MINIMUM
MAXIMUM OVERCURRENT PROTECTION
MAIN LUGS ONLY
MOUNT
MOUNTED
MOUNTING
MANUAL TRANSFER SWITCH
MEDIUM VOLTAGE
MEGAVOLT-AMPERE
MEGAWATT MICROWAVE

NA
NEC
NEMA

NOT APPLICABLE
NATIONAL ELECTRICAL CODE
NATIONAL ELECTRICAL MANUFACTURERS
ASSOCIATION
NEUTRAL
NATIONAL FIRE PROTECTION ASSOCIATION
NOT IN CONTRACT
NIGHT LIGHT
NORMALLY OPEN
NO SCALE
NOT TO SCALE

OC
OD
OL

ON CENTER
OUTSIDE DIAMETER
OVERLOAD

P
PA
PB
PBP
PCB
PEC
PED
PEND
PF
PH
PNL
POD
PT
PTRV
PVC
PWR

POLE
PUBLIC ADDRESS
PANELBOARD, PULL BOX, OR PUSHBUTTON
PREFABRICATED BEDSIDE PATIENT UNIT
POLYCHLORINATED BIPHENYL
PHOTOELECTRIC CELL
PEDESTAL
PENDANT
POWER FACTOR
PHASE
PANEL
POWER OPERATED DAMPER
POTENTIAL TRANSFORMER
POWER TYPE ROOF VENTILATION
POLYVINYL CHLORIDE (PLASTIC)
POWER

RCP
RE
REC
RECP
RCS
RM
RMS
REQD

REFLECTED CEILING PLAN
RELOCATED DEVICE
RECESSED
RECEPTACLE
RIGID GALVANIZED STEEL
ROOM
ROOT MEAN SQUARE
REQUIRED

SCC
SES
SD
SF
SHT
SI
SPEC
SPST
SURF
SW
SWBD
SWGR

SHORT CIRCUIT CAPACITY
SERVICE ENTRANCE SECTION
SMOKE DETECTOR
SQUARE FOOT (FEET)
SHEET
INTERNATIONAL SYSTEM OF UNITS
SPECIFICATION
SINGLE POLE, SINGLE THROW
SURFACE
SWITCH
SWITCHBOARD
SWITCHGEAR

TC
TEL
TP
TPS
TTB
TV
TYP

TIME CLOCK
TELEPHONE
TWISTED PAIR
TWISTED PAIR SHIELDED
TELEPHONE TERMINAL BOARD
TELEVISION
TYPICAL

UFD
UGND
UL
UON
UPS
UTIL

UNDERFLOOR DUCT
UNDERGROUND
UNDERWRITERS LABORATORY
UNLESS OTHERWISE NOTED
UNINTERRUPTIBLE POWER SUPPLY
UTILITY

V
VA
VAR
VFD
VOLT

VOLT
VOLT AMPERE
VOLT AMPERE REACTIVE
VARIABLE FREQUENCY DRIVE
VOLTAGE

W
WH
WP

WATT
WATER HEATER
WEATHERPROOF

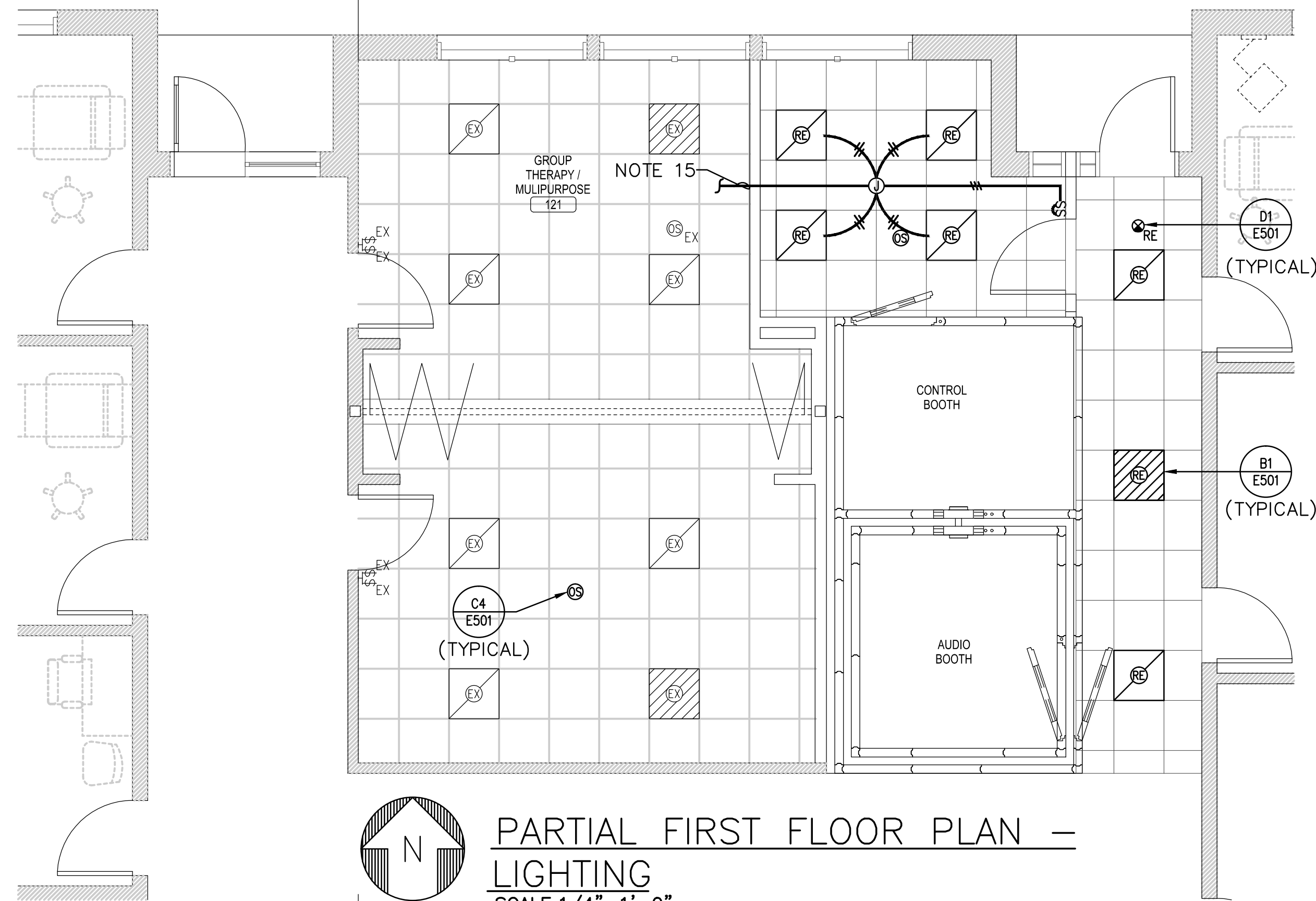
XFER
XFMR

TRANSFER
TRANSFORMER

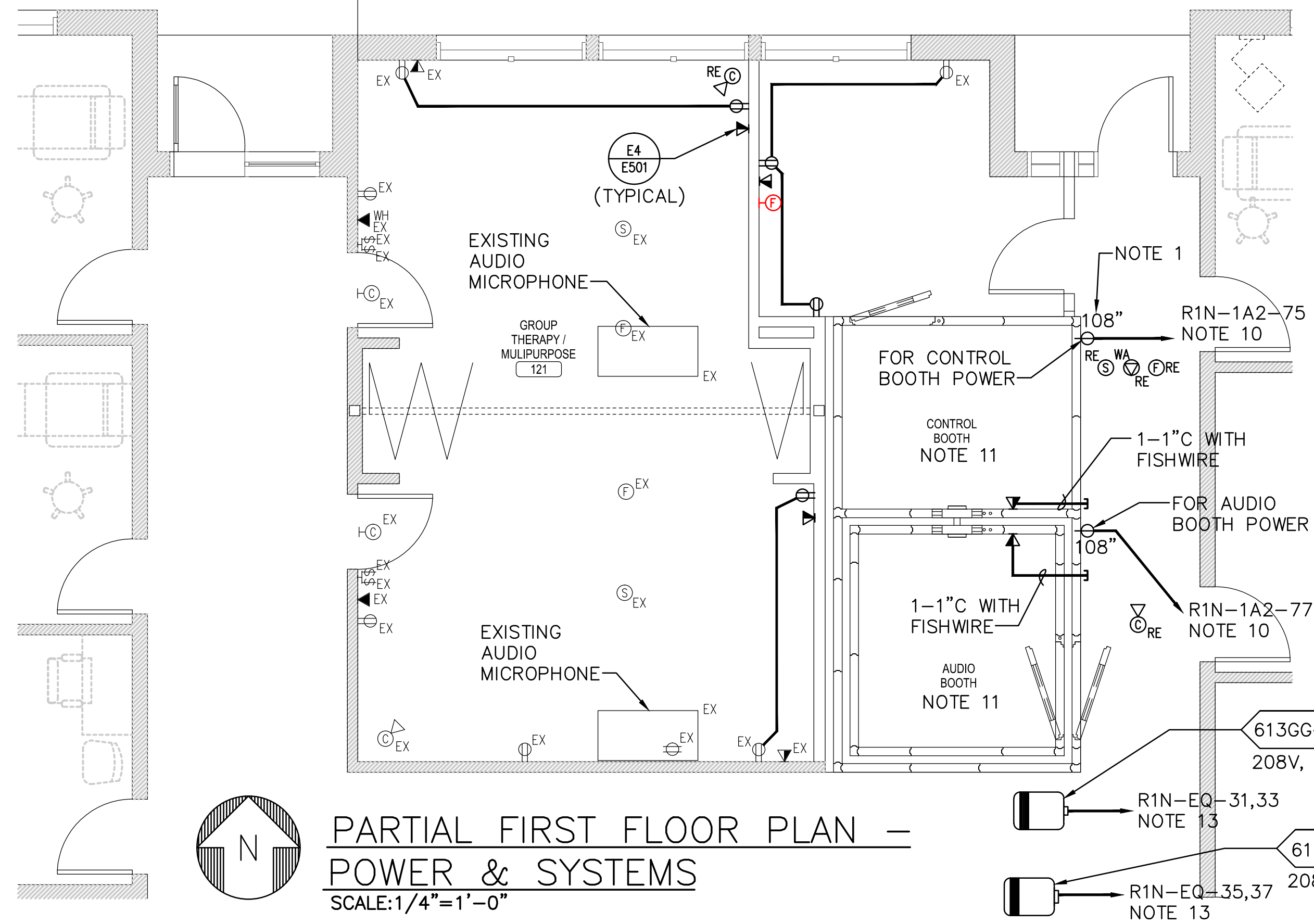
Revisions:		Date	
CONSULTANTS:			
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We Make Buildings Work.			
PROJECT No. 2013012.00	DRAWN BY: JNK	DESIGNED BY: TK	CHECKED BY: DJM
ARCHITECT/ENGINEERS:			
SA architects 600 North Hartley Street, Suite 150 T 717.643.3200 F 717.699.0205		York, PA 17404 www.saaarchitects.com	
Drawing Title SYMBOLS & ABBREVIATIONS		Project Title ADD AUDIOLOGY BOOTH TO FORT DETRICK	
Approved: Project Director		Location FORT DETRICK, FREDERICK, MD	
Date 05.17.2013		Checked -	Drawn -
Project Number 613G-13-113		Building Number 613GG	
Drawing Number 613GG-E001		Dwg. 10 of 12	
Office of Construction and Facilities Management			
Department of Veterans Affairs			

one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot

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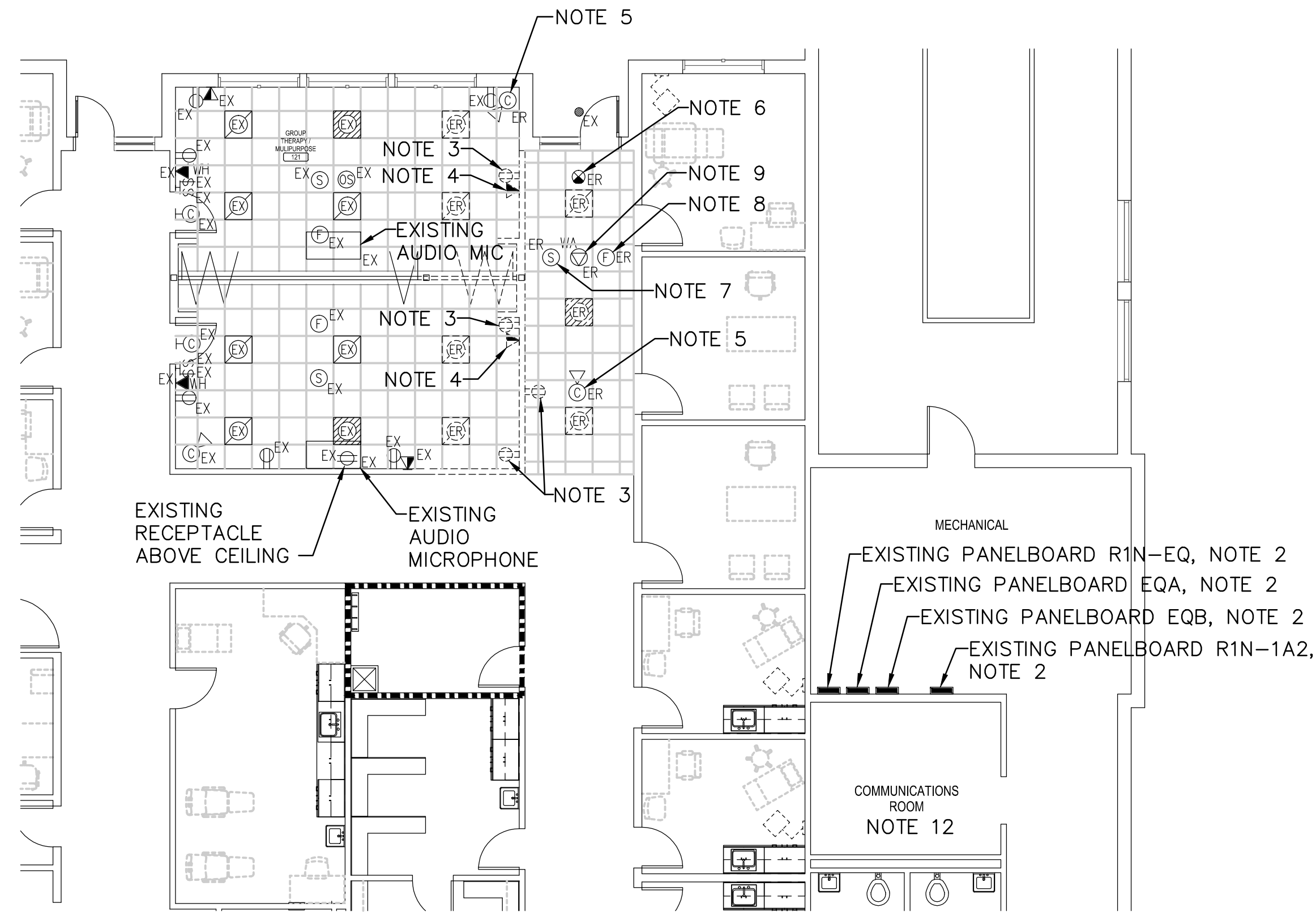
PARTIAL FIRST FLOOR PLAN -
LIGHTING
SCALE:1/4"=1'-0"



PARTIAL FIRST FLOOR PLAN -
POWER & SYSTEMS
SCALE:1/4"=1'-0"

NOTES:

- INDICATES HEIGHT AFF, TYPICAL
- EXISTING PANELBOARD SHALL REMAIN. SHOWN FOR REFERENCE ONLY.
- REMOVE EXISTING RECEPTACLE, OUTLET BOX AND ALL CONDUIT AND WIRING BACK TO FIRST JUNCTION BOX ABOVE FINISHED CEILING. RE-CONNECT ALL THROUGH-WIRING TO LOADS NOT AFFECTED BY DEMOLITION WORK. IF RECEPTACLE IS CONNECTED TO HOMERUN WIRING FROM PANELBOARD, REFER TO GENERAL DEMOLITION NOTE "A" ON THIS DRAWING.
- REMOVE EXISTING TELE/DATA OUTLET AND ALL CONDUIT BACK TO ABOVE FINISHED CEILING. REMOVE ALL TELEPHONE WIRING BACK TO EXISTING PUNCHDOWN BLOCKS. REMOVE ALL DATA WIRING BACK TO EXISTING PATCH PANEL. COORDINATE REMOVAL OF ALL WIRING WITH OWNER TO ENSURE TELEPHONE AND DATA SYSTEM REMAIN FULLY OPERATIONAL DURING DEMOLITION WORK.
- REMOVE EXISTING CAMERA AND ASSOCIATED DOME AND TEMPORARILY SUPPORT FROM STRUCTURAL CEILING DURING DEMOLITION PORTION OF PROJECT. REMOVE ALL SECURITY SYSTEM WIRING BACK TO EXISTING HEAD END EQUIPMENT. DURING CONSTRUCTION PORTION OF PROJECT, RE-LOCATE CAMERA AND ASSOCIATED DOME AS SHOWN ON "PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS". FURNISH AND INSTALL WIRING FROM EXISTING HEAD END EQUIPMENT TO RELOCATED CAMERA. WIRING TYPE SHALL MATCH EXISTING.
- REMOVE EXISTING EXIT SIGN AND TEMPORARILY SUPPORT FROM STRUCTURAL CEILING DURING DEMOLITION PORTION OF PROJECT. TEMPORARY LOCATION SHALL ALLOW FULLY CODE COMPLIANT VISIBILITY OF EXIT SIGN. DURING CONSTRUCTION PORTION OF PROJECT, RE-LOCATE EXIT SIGN AS SHOWN ON "PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS". FURNISH AND INSTALL CONDUIT AND WIRING, EXTEND TO RE-LOCATED EXIT SIGN AND CONNECT. CONDUIT AND WIRE SIZE SHALL MATCH EXISTING.
- REMOVE EXISTING CEILING SPEAKER AND TEMPORARILY SUPPORT FROM STRUCTURAL CEILING DURING DEMOLITION PORTION OF PROJECT. DURING CONSTRUCTION PORTION OF PROJECT, RE-LOCATE SPEAKER AS SHOWN ON "PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS".
- REMOVE EXISTING FIRE ALARM DEVICE AND TEMPORARILY SUPPORT FROM STRUCTURAL CEILING DURING DEMOLITION PORTION OF PROJECT. DURING CONSTRUCTION PORTION OF PROJECT, RE-LOCATE FIRE ALARM DEVICE AS SHOWN ON "PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS".
- REMOVE EXISTING IT ANTENNA AND TEMPORARILY SUPPORT FROM STRUCTURAL CEILING DURING DEMOLITION PORTION OF PROJECT. DURING CONSTRUCTION PORTION OF PROJECT, RE-LOCATE FIRE IT ANTENNA AS SHOWN ON "PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS".
- CONNECT TO SPARE 20A, 1 POLE CIRCUIT BREAKER IN EXISTING PANELBOARD.
- AUDIO BOOTH/CONTROL BOOTH HAS SINGLE-POINT CORD/PLUG CONNECTION TOP OF BOOTH.
- EXISTING IT PUNCHDOWN PANELS, EXISTING TELEPHONE PUNCHDOWN BLOCKS AND EXISTING FIRE ALARM MAIN CONTROL PANEL ARE LOCATED IN THIS ROOM.
- FURNISH AND INSTALL 20A, 2 POLE CIRCUIT BREAKER IN EXISTING PANELBOARD FOR THIS BRANCH CIRCUIT AND CONNECT. AIC RATING OF BREAKER SHALL BE GREATER THAN OR EQUAL TO AIC RATING OF EXISTING PANELBOARD.
- VAV BOX HAS INTEGRAL LOCAL DISCONNECT.
- FURNISH AND INSTALL CONDUIT AND WIRING AND CONNECT TO UNSWITCHED PORTION OF EXISTING LIGHTING BRANCH CIRCUIT IN GROUP THERAPY/MULTI-PURPOSE, 121.



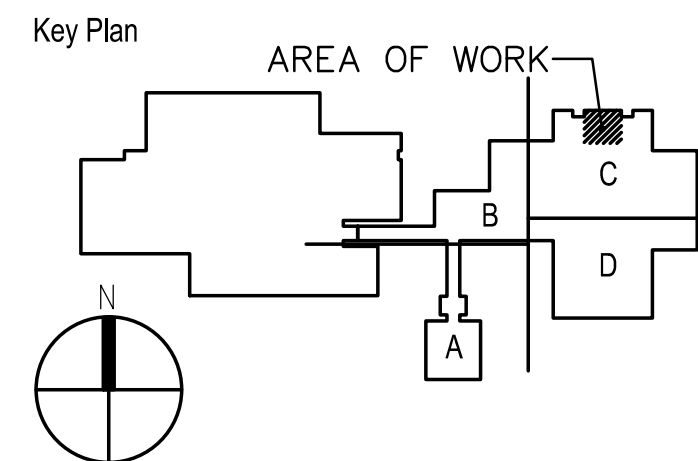
PARTIAL FIRST FLOOR PLAN -
DEMOLITION - ELECTRICAL
SCALE:1/8"=1'-0"

GENERAL NOTES - DEMOLITION

- EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC., SHOWN ON PLANS TO BE REMOVED COMPLETELY. CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA, DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS.
- REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE, IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.
- MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

GENERAL NOTES

- ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.
- LIGHTING FIXTURES WITH MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED WITH ONE SWITCH AND INNER LAMP(S) CONTROLLED BY A SECOND SWITCH.
- (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.



ARCHITECT/ENGINEERS:

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Drawing Title

PARTIAL DEMOLITION & FIRST FLOOR PLAN -
LIGHTING, POWER & SYSTEMS

Approved: Project Director

Project Title

ADD AUDIOLOGY BOOTH TO
FORT DETRICK

Location

FORT DETRICK, FREDERICK, MD

Date
05.17.2013

Checked
-

Drawn
-

Project Number

613-13-113

Building Number

613GG

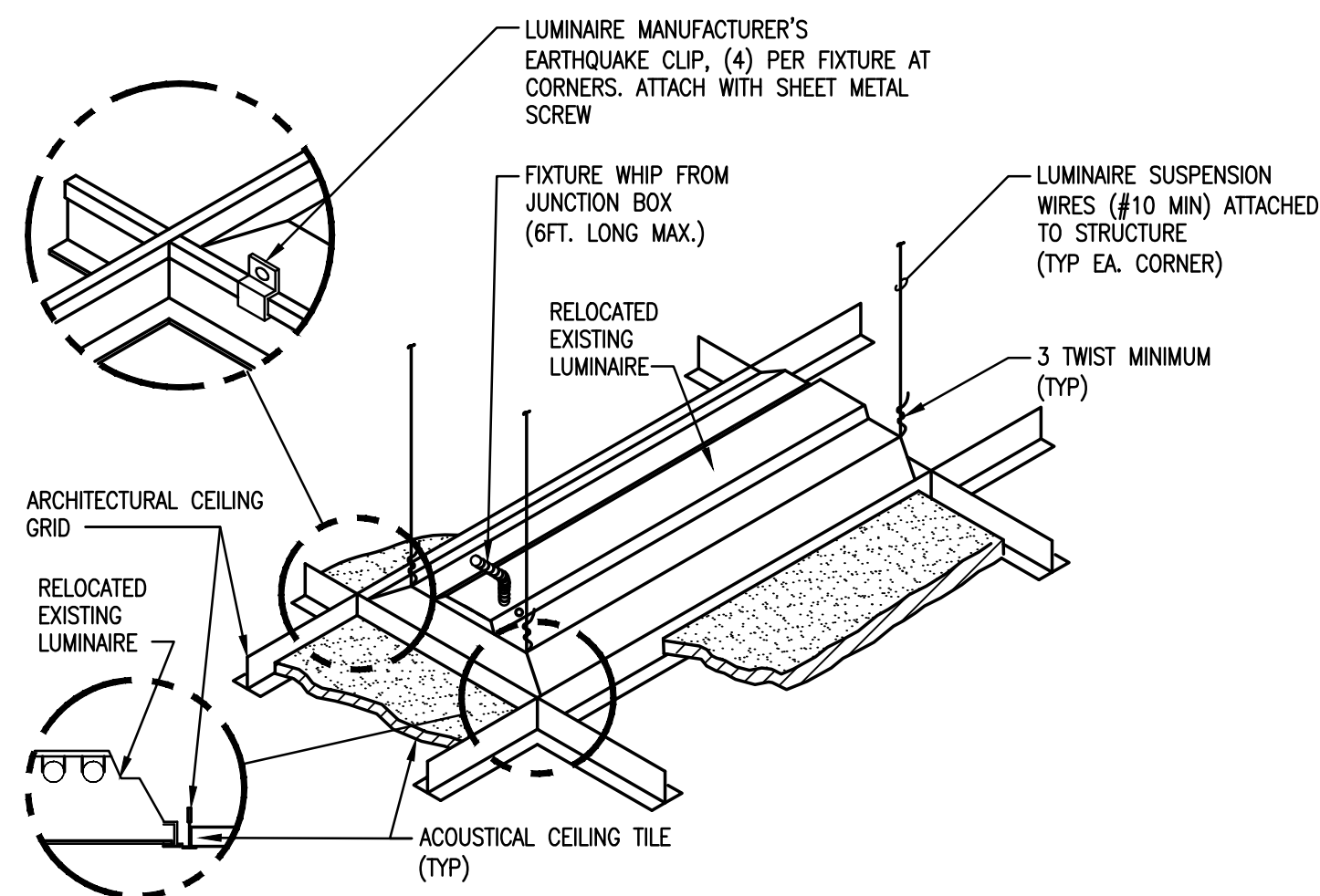
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613GG-E101

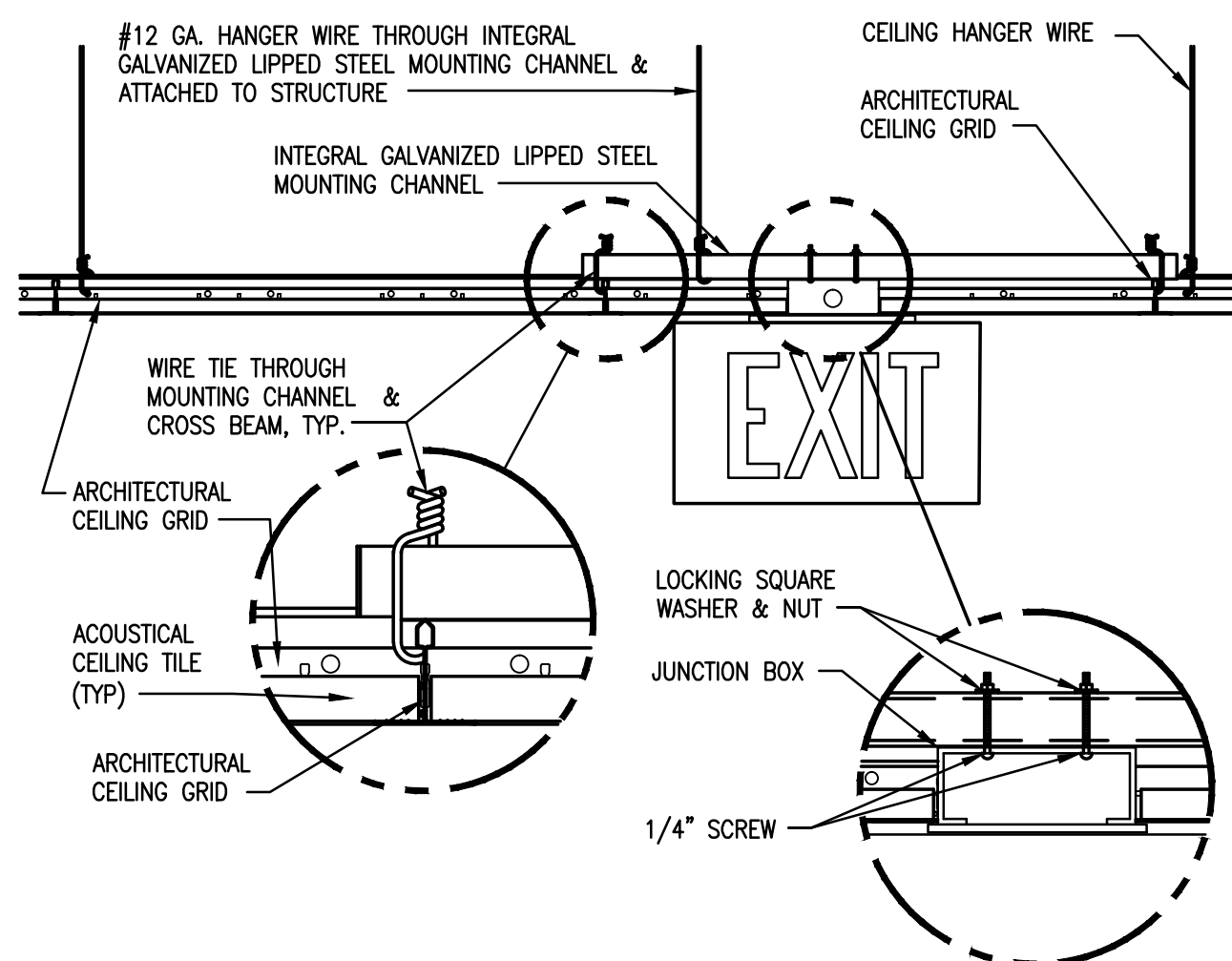
Dwg. 11 of 12

Office of
Construction
and Facilities
Management

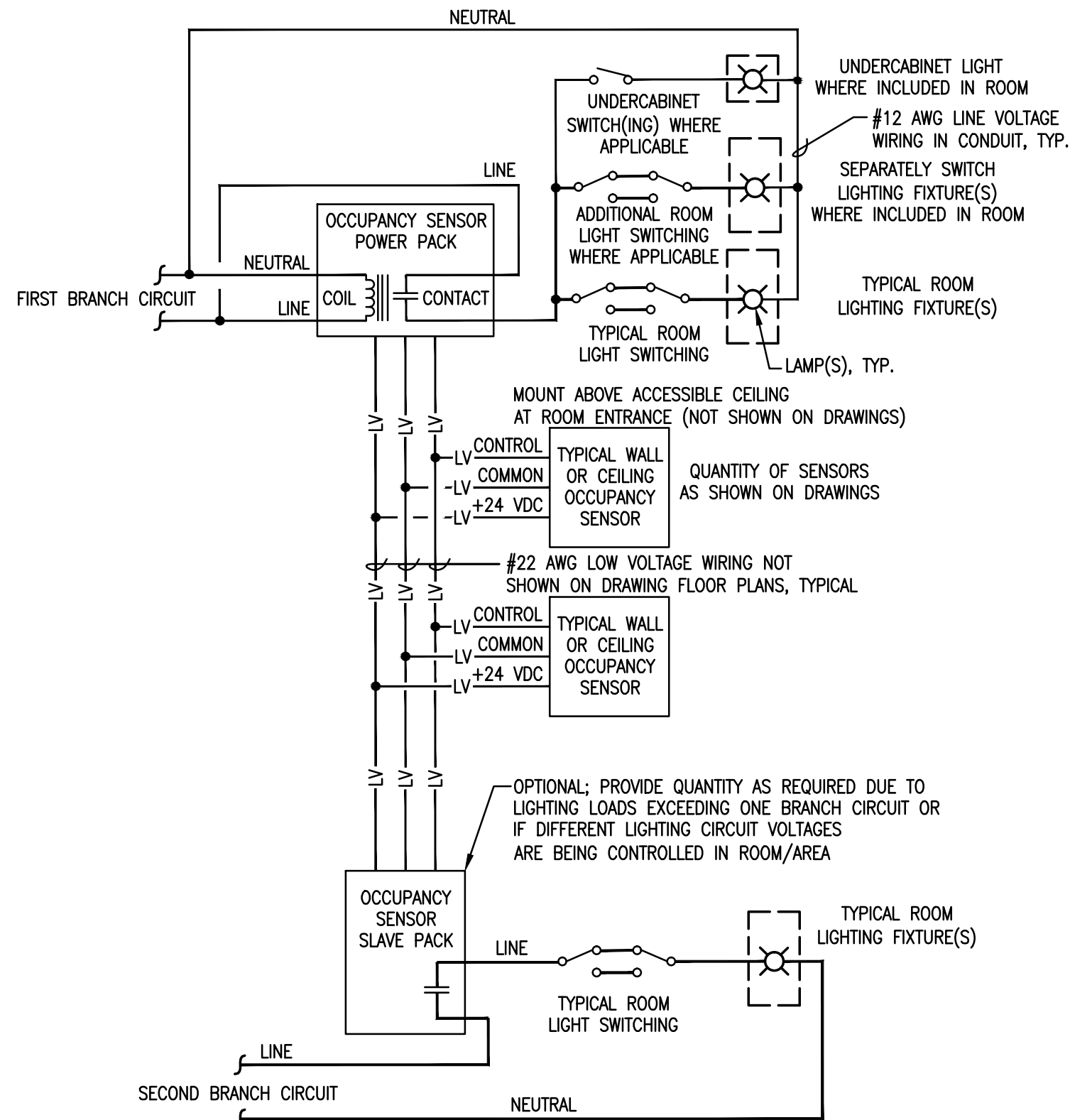
Department of
Veterans Affairs



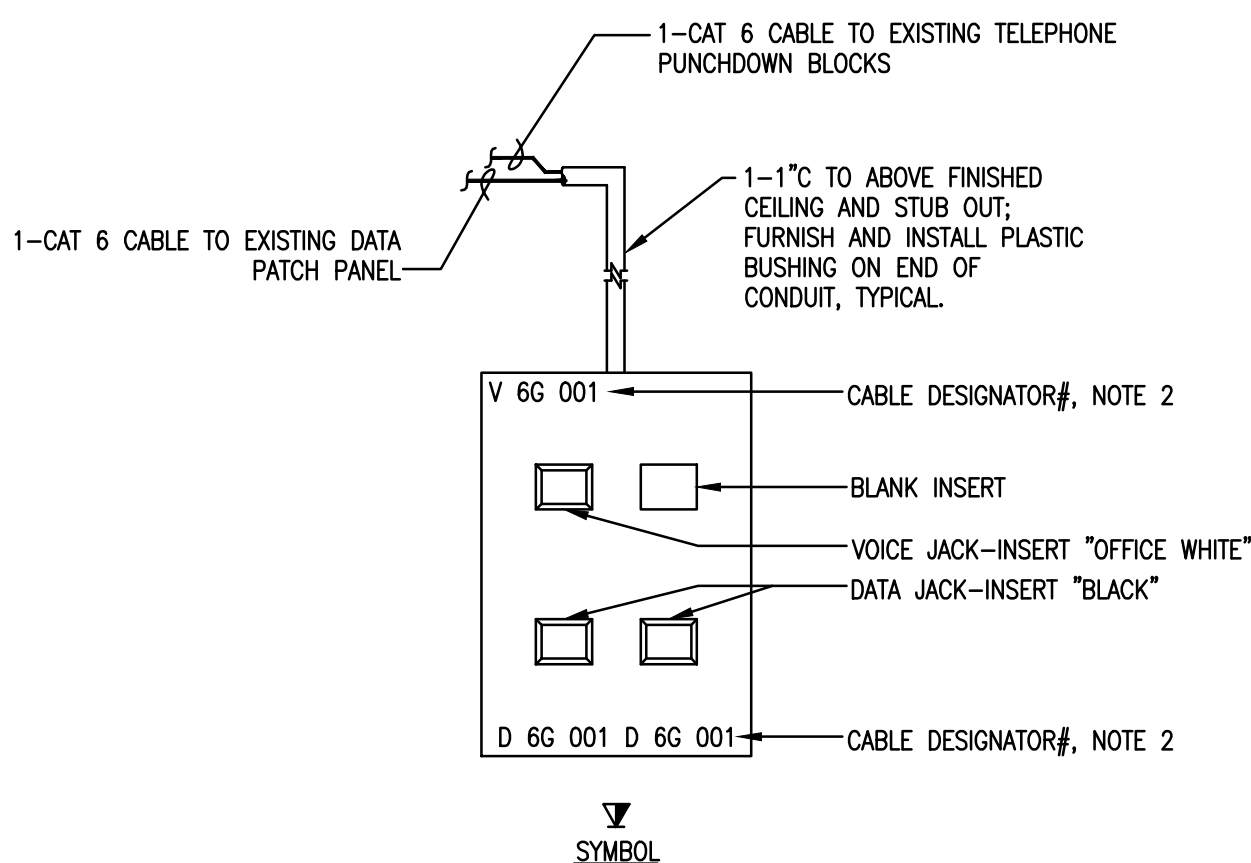
B1 LUMINAIRE MOUNTING - LAY-IN CEILING
NTS



D1 EXIT SIGN MOUNTING - LAY-IN CEILING
NTS



C4 TYPICAL OCCUPANCY CONTROLLED LIGHTING WIRING DIAGRAM
NTS
NOTE 1



E4 TYPICAL FOUR PORT TELEPHONE/DATA WALL OUTLET
NTS

NOTES:

1. DIAGRAM INDICATES A TYPICAL LOW VOLTAGE OCCUPANCY AND/OR DAYLIGHT SENSING LIGHTING CONTROL SCHEME. FURNISH AND INSTALL ALL COMPONENTS (POWER PACKS, RELAYS, WIRING, ETC.) AS REQUIRED BY THE OCCUPANCY/DAYLIGHT SENSOR MANUFACTURER FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. CABLE DESIGNATOR NUMBERS ARE SPECIFICALLY DESIGNED TO REVEAL INFORMATION AT THE WORK STATION FACE PLATE. THE "V" INDICATES VOICE CABLE & "D" INDICATES DATA CABLE. THE NUMBER "6" INDICATES 6TH FLOOR OR "5" FOR 5TH FLOOR, ETC. THE LETTER "G" INDICATES THAT THE CABLE RUNS TO THE "G" TELECOM CLOSET. THE REMAINING NUMBERS "001" INDICATES THE ACTUAL CABLE NUMBER WITHIN THE EXISTING COMMUNICATIONS ROOM. THE CABLE DESIGNATORS SHALL OMIT THE "D" AND "V" AT THE BEGINNING.

Revisions:		CONSULTANTS: Barton Associates Consulting Engineers Susquehanna Commerce Center North Building 221 West Philadelphia Street York, PA 17401 Tel.: (717) 645-7654 Web: www.ba-inc.com		ARCHITECT/ENGINEERS: SA architects 600 North Hartley Street, Suite 150 T 717.843.3200 F 717.699.0205 York, PA 17404 www.saaarchitects.com		Drawing Title DETAILS & SCHEDULES Approved: Project Director		Project Title ADD AUDIOLOGY BOOTH TO FORT DETRICK Location FORT DETRICK, FREDERICK, MD Date 05.17.2013 Checked - Drawn -		Project Number 613-13-113 Building Number 613GG Drawing Number 613GG-E501 Dwg. 12 of 12		Office of Construction and Facilities Management Department of Veterans Affairs	
Project No. 2013012.00 Drawn By: JNK Designed By: TK Checked By: DJM		YORK STATE COLLEGE											